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Gas Househeating Survey: 1983

36th Annual Survey
Gas Utility Industry
United States

Househeating Customers, 1983
Unit Additions—Conversions and New Housing, 1983-1984
Gas Utility Customer New Hook-Up Requirements, 1983
Competitive Fuel Prices, 1983

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Introduction

This report presents the results of the 36th Annual Gas House-heating Survey conducted by the American Gas Association. Data collected for 1983, as well as projected data for 1984, provide a comprehensive portrait of the residential gas market by state and region, including customers, fuel prices, anticipated inventory additions from new homes and conversions, and existing requirements on new customer hook-ups.

A total of 157 gas utility companies, serving 88% of the nation's residential gas customers, responded to this year's survey. The information provided by these utilities was expanded to obtain the state and national totals shown in Tables 3 and 5. Individual company data are listed by region and state in Appendices 1 and 2. Please note that some tabular data may not add to totals due to rounding.

The American Gas Association wishes to thank those companies who participated in the survey for making this publication possible.

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I. Executive Summary

- The U.S. housing market made a dramatic recovery in 1983 and natural gas made more than proportionately strong gains according to Bureau of the Census data. New housing completions increased by 40% to 1.4 million in 1983. New gas (including LPG) heated completions increased by 50%, whereas, new electric heated completions increased by 36%.

- In the new housing completions market, gas' share of single and multifamily unit completions increased to 38% in 1983 from 35% in 1982, while electricity's share dropped to 56% from 57%. Gas' market share of new single family home completions increased to 43% in 1983 from 40% in 1982. Gas heated completions outnumbered electric completions in three of the four census regions.

- There were 45.4 million residential gas customers by year-end 1983, a net increase of 0.6% over 1982. Househeating customer saturation increased by half a percentage point to 88.7%.

- The dominance of natural gas as the leading househeating fuel among all existing homes in the United States continued, with 55% of the home heating market in 1983. Fuel oil dropped to 15%, electricity remained the same at 19%, while all other fuels (wood, coal, etc.) increased to 11% as a result of increases in wood use.

- Regionally, gas-heated housing is most prevalent in the Midwest states, maintaining a 72% share of the market. In the Northeast region, gas increased its share to 43% in 1983, up steadily from 38% in 1979. In all regions except the Northeast, gas had the largest market share of total existing homes.

- New gas househeating unit additions numbered 446,400, a 17% increase. However, the addition of new gas househeating units from conversions of existing units and new housing combined totalled 577,800 in 1983, a 7% decline from last year.

- Conversions of existing units from alternative fuels to gas househeating were 131,400 in 1983, a continuation of last year's decline from the record conversion levels of 1980 and 1981. This is still above some of the conversion levels of the mid-1970s, but appears to reflect the combined effects of stable prices for heating oil (the main source of conversions) and uncertainty over gas pricing legislation.

- Based on A.G.A. survey data, 109,883 or 83% of all heating conversions, were from fuel oil to gas. The remaining conversions to natural gas were 9,391 converting from LPG, 9,060 from electricity and 3,795 from "other fuels" (i.e.,

coal, wood, etc.). Approximately 85% of all conversions or 112,462 were in four of the nine Census divisions--Middle Atlantic, East North Central, South Atlantic, and New England. Utility estimates for 1984 indicated that the number of conversions is expected to decline slightly to approximately 125,000 units.

- In 1983, several utilities reported some form of new hook-up requirements (or restrictions), primarily conservation-oriented and main extension requirements. For example, some new customers were required to meet minimum insulation or structural standards set by state authorities. Other customers were required to pay a surcharge to cover the financing of the main extension. In most cases, new customers were still added.

- Shipments of gas warm air furnaces increased by 44% in 1983, compared to 1982. Gas boiler shipments were about the same as in 1982. Gas wall furnace shipments, however, rose 27%. Electric warm air furnace shipments increased 92% in 1983, while shipments of oil warm air furnaces increased 23%. Total manufacturers' shipments of residential heating equipment increased 45% in 1983.

- Conservation, reported as the total percentage decline in consumption per customer corrected for weather variations, averaged 25.0% below the 1973 consumption level. Regionally, the conservation level ranged from a high of 28.7% in the Mountain division to a low of 20.5% in the East South Central division.

II. United States Housing Market In 1983

New Housing - Starts

The number of new private housing starts (seasonally adjusted) in 1983 rose dramatically to 1.70 million units, a 60% increase over 1982 (see Figure 1). This level is nearly equal to the 1979 figure before the dramatic decline in housing starts in the 1980's that bottomed out at 1.06 million units in 1982. Construction of single family homes increased 61% to 1.07 million, while the construction of multifamily units increased by 59% to 635,000.

Recent housing-start data indicate that the housing recovery is continuing, following the worst 2 years for housing in the postwar period. Privately owned housing starts in June 1984 were at a seasonally adjusted annual rate of 1.90 million starts.[1] This is 9% above the June 1983 rate. Wharton Econometric Forecasting Associates (WEFA) has predicted that 1984 starts would average 1.88 million

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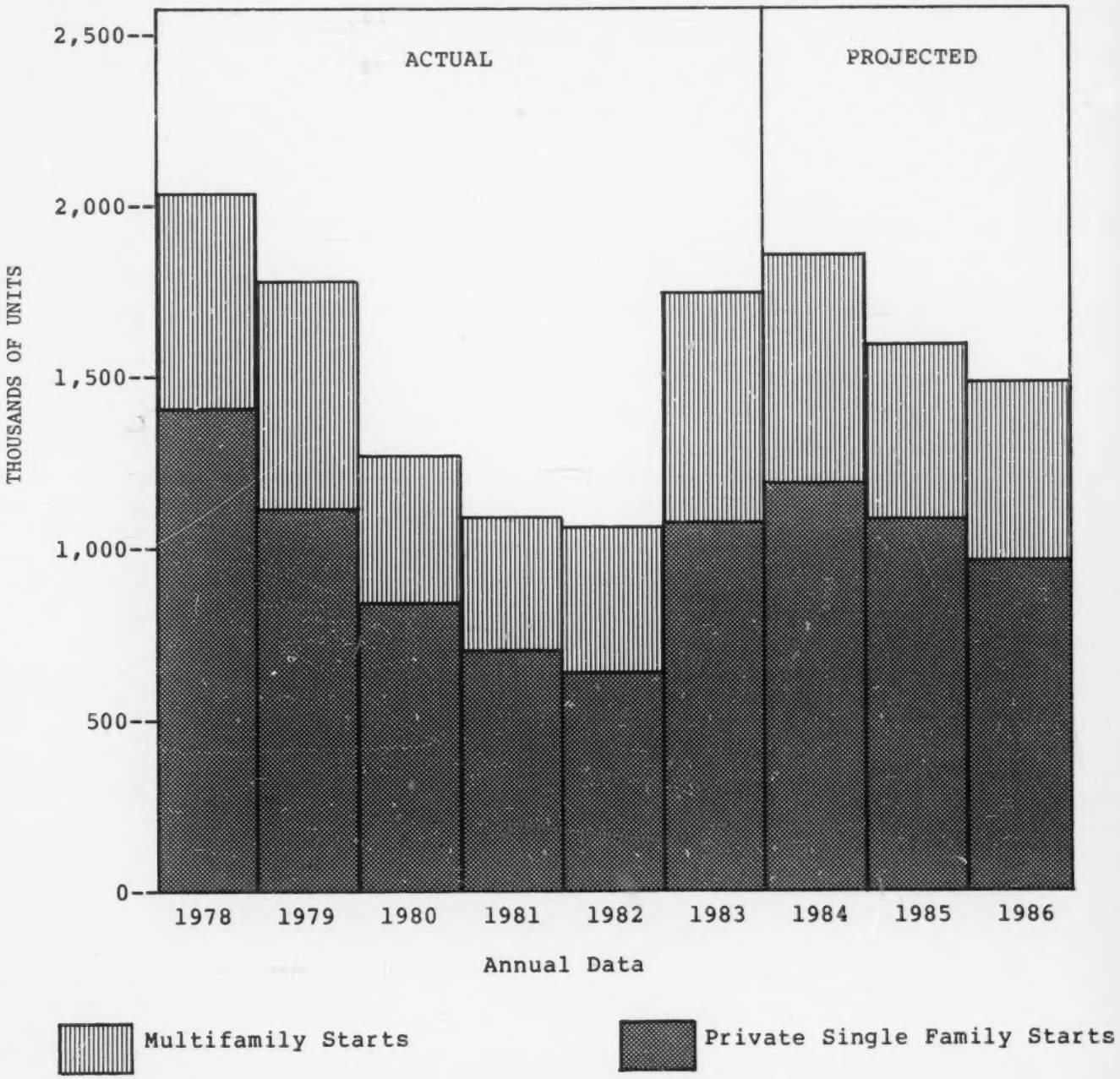
1 Source: U.S. Department of Commerce, Bureau of Census, Construction Reports - Housing Starts, June 1983, Series C-20.

Figure 1

NEW RESIDENTIAL HOUSING STARTS ACTUAL AND PROJECTED
1978-1986



Source: Actual--U.S. Bureau of the Census, Construction Reports - Series C20, Housing Starts, June, 1984.

Projected--Wharton Econometric Forecasting Associates Long Term Model, Baseline Forecast, Volume 2, Number 3, June, 1984.

units. WEFA expects the housing market to slow down somewhat over the following two years, with starts nearing 1.6 million in 1985 and 1.49 million in 1986.

New Housing - Completions

The housing industry recovery in 1983 is further evidenced by the increase in the number of unit completions (which lag housing starts by about 6 months) to 1.4 million in 1983, an increase of 40% compared to 1982 (see Table 1). The increase in new gas completions was even greater at 50%, reflecting an increase from 355,000 new units in 1982 to 533,000 new units in 1983 according to the Census publication, Characteristics of New Housing: 1983. It is likely that most of this increase was from natural gas, since net LP gas units have gone down between 1981 and 1983 according to the Annual Housing Survey, another Census publication.

Single family housing completions using gas heat actually exceeded the number of electrically heated completions within Standard Metropolitan Statistical Areas (SMSA's). Approximately 924,000 of the completions (66%) in 1983 were single family homes. There were 328,000 gas heated completions compared to 314,000 electric heated completions within SMSA's. However, outside of the

Table 1

1983 PRIVATE HOUSING COMPLETIONS-BY HEATING FUEL
(thousands of units)

Single Family	Market Share	U.S.	North-east	North Central	South	West
Gas[a]	43	400	40	92	163	105
Electricity	49	448	38	35	296	79
Oil	2	22	18	(I)	(I)	(I)
Other	6	53	9	13	15	16
Subtotal	100%	923				
Multifamily						
Gas[a]	28	133	21	37	31	44
Electricity	70	327	9	22	238	58
Oil	1	3	(I)	(I)	(I)	(I)
Other	1	4	NA	1	1	3
Subtotal	100%	467				
Total		1,390	139	201	746	304

[a]Includes liquefied petroleum gas.
(I)Insufficient sample size to allow publication.

Source: U.S. Bureau of the Census, Characteristics of New Housing: 1983, Construction Reports C25-83-18, June 1984.

SMSA's, in outlying suburban and rural areas, electric heated completions outnumbered gas with 135,000 completions compared to 73,000 for gas.

On the national level, the market share for natural gas heating was 38% of all 1983 completions--up from 35% in 1982. The electric share of all new completions in 1983 was 56%, down from 57%. In the single family home category, the gas market share was 43%--up from 40% in 1982. The electric heating market share was 49%, down from 50%. In contrast, the electric heating share for new multifamily units increased to 70% from 68% in 1982. The gas share remained at 28% of multifamily units.

Gas heated completions in 1983 outnumbered electric heated completions in three of four regions for all units among single family homes. However, new electric heated completions among single family homes in the South outnumbered gas heated completions by 133,000, or nearly double. In the multifamily sector gas completions outnumbered electric in two regions. Again, the South showed a wide margin (207,000) in electric heated completions compared to gas.

Existing Housing

There were an estimated 84.6 million occupied housing units in the United States in 1983, according to the Annual Housing Survey. Of this total, 46.7 million, or 55%, were units which used natural gas for heating (see Table 2). A regional breakdown of the 46.7 million gas heated units found 17% in the Northeast, 34% in the Midwest (sometimes called North Central), 26% in the South, and 23% in the West.

The Bureau of the Census has switched to a biennial basis for the Annual Housing Survey and did not collect data for 1982. The 1983 figure of 46.7 million gas heated units is a 1.3% increase over the 1981 total. The total housing inventory increased by 1.8% between 1981 and 1983.

As a percentage of total homes, electrically heated units stayed at 19% in 1983 with a total of 15.7 million units. This is an average annual increase of 4.3% since 1979. The number of units heated with fuel oil continued to decline, falling to 13.0 million in 1983, or 15% of the total. The number of homes heated by other fuels (wood, coal, solar, etc.) rose to an 11% market share, totalling about 9.2 million units in 1983 compared to 7.1 million units in 1981. The difference of 2.1 million units was entirely due to a doubling in wood heated homes in each region between 1981 and 1983.

In all regions, except the Northeast, gas had the largest market share of heated homes. Gas heated housing is most prevalent in the Midwest states, maintaining a 72% share of the market. In the Northeast region, where oil heated homes have the largest market share, gas increased its market share to 43% in 1982, up from 37% in 1978 and 41% in 1981.

Table 2

U.S. RESIDENTIAL HOUSING INVENTORY BY HEATING FUEL
1979-1983
(Thousands of Occupied Units[a])

	1979	1980	1981	1982[b]	1983	1983 Market Share
United States	78,167	80,073	83,175	83,800	84,638	
Gas	43,322	44,398	46,084	46,600	46,699	55%
Electric	13,244	14,207	15,486	15,900	15,683	19
Oil[c]	15,708	14,867	14,494	14,200	13,031	15
Other[d]	6,298	6,601	7,111	7,100	9,224	11
Northeast	17,123	17,264	17,852	17,900	18,221	
Gas	6,558	6,928	7,335	7,500	7,741	43%
Electric	1,109	1,169	1,281	1,300	1,319	7
Oil[c]	9,056	8,685	8,642	8,500	8,226	45
Other[d]	400	482	594	600	934	5
Midwest	20,565	20,842	21,564	21,600	21,618	
Gas	14,428	14,688	15,308	15,400	15,656	72%
Electric	1,864	2,036	2,210	2,200	2,172	10
Oil[c]	2,724	2,502	2,328	2,300	1,774	9
Other[d]	1,549	1,616	1,718	1,700	2,015	9
South	25,585	26,286	27,430	27,800	27,931	
Gas	12,054	12,290	12,725	12,800	12,346	44%
Electric	7,074	7,615	8,225	8,600	8,557	31
Oil[c]	3,191	3,009	2,905	2,800	2,559	9
Other[d]	3,266	3,372	3,575	3,600	4,470	16
West	15,299	15,681	16,329	16,500	16,868	
Gas	10,283	10,492	10,716	10,900	10,956	65%
Electric	3,197	3,388	3,770	3,800	3,635	21
Oil[c]	737	671	619	600	472	3
Other[d]	1,082	1,130	1,224	1,200	1,805	11

[a]Units include both single and multifamily.

[b]The Annual Housing Survey was not conducted in 1982 as a result of switching to a biennial survey. A.G.A. estimate for 1982 derived by adding number of dwellings completed by fuel type, as reported by U.S. Bureu of Census, Construction Reports - Series C-25, June 1983, to 1981 actual data, considering also the net gains and losses as a result of fuel switching and demolitions.

[c]Oil includes kerosene.

[d]Other includes LP gas, coal, wood, other, and none.

Source: U.S. Bureau of the Census, Annual Housing Survey: General Housing Characteristics, 1979-1981 and 1983.

III. Residential Gas Customers in 1982

Total Residential Customers

With net year-end customer additions of 285,500, the total number of gas customers[2] reached nearly 45.4 million in 1983, a 0.6% increase over 1982 (see Table 3). The South with 189,600 new customers accounted for 66% of all new residential customer additions. The North Central region accounted for virtually all the rest of the new customer additions with 97,200.

Househeating Customers

About 40.2 million, or 88.7% of all 1983 residential gas customers were househeating customers. The gas househeating/total residential gas customer ratio, i.e., market saturation, increased one half percentage point from 1982. Househeating customer net additions totalled 473,000 in 1983, a 1.2% increase. This included existing gas baseload customers who converted their heating system to gas, as well as customers added through new construction and conversions from alternative fuels.

Gas Househeating Unit Additions

The gas industry added 577,800 househeating units in 1983 (see Table 3), a 7% decline from 1982. Of total additions 446,400 were from new housing[3], an increase in new units of 18% from 1982. It also represents an increase in the share of househeating additions from new housing to 78% from 61% in 1982. The West and South showed the highest ratio of additions from new housing versus conversions, 93% and 90%, whereas, the Northeast showed only 37% from new housing.

In 1983, 131,400 housing units were converted from an alternative fuel to natural gas (see Table 4), a continuation of last year's decline from the record level of conversions reported in prior years. This represents a 48% decrease from the 1982 level of 244,800 conversions. The actual number of 1983 conversions fell short of the forecast of 178,900 made by responding companies in 1982. The low level of conversions is believed to be a result of stable prices for heating oil (the main source of conversions) and uncertainty over the effects of gas pricing legislation.

2 At most utilities a residential customer is defined as an individual or organization purchasing gas for domestic purposes (heating, cooking) at one location under one rate classification, i.e., a meter represents a single customer.

3 Because of inconsistencies in the definition of a completed housing unit (used by the Bureau of the Census) and an on-line gas customer (used by a gas utility), the number of gas heated housing units added from new construction reported in the survey does not match the Census figures shown in Table 1.

Table 3

RESIDENTIAL AND HOUSEHEATING CUSTOMERS OF GAS UTILITIES,
AND 1983 HOUSEHEATING UNIT ADDITIONS,
BY STATE, AS OF DECEMBER 31, 1983

(Thousands)

Region, Division and State	Residential Customers			1983 Householding Unit Additions From New Housing and Conversions				
	Total	House Heating	Percent Heating	Total (100%)	New Housing Number	New Housing (%)	Conversions Number	Conversions (%)
United States	45,375.9	40,228.3	88.7	577.8	446.4	77	131.4	23
NORTHEAST	9,357.2	5,964.4	63.7	102.6	38.1	37	64.5	63
New England	1,652.8	1,086.8	65.8	23.2	8.2	35	15.0	65
Connecticut	388.1	242.9	62.6	10.5	4.0	38	6.5	62
Maine	12.6	9.6	76.1	0.2	0.1	50	0.1	50
Massachusetts	1,025.1	667.9	65.2	9.9	3.0	30	6.9	70
New Hampshire	47.5	37.4	78.7	1.3	0.8	62	0.5	38
Rhode Island	164.8	116.6	70.7	0.9	0.1	11	0.8	89
Vermont	14.7	12.4	84.4	0.4	0.2	50	0.2	50
Middle Atlantic	7,704.5	4,877.6	63.3	79.4	29.9	38	49.5	62
New Jersey	1,730.3	1,079.7	62.4	34.4	13.7	40	20.7	60
New York	3,744.3	1,913.7	51.1	26.4	6.6	25	19.8	75
Pennsylvania	2,229.9	1,884.2	84.5	18.6	9.6	52	9.0	48
NORTH CENTRAL	14,126.8	13,382.7	94.7	125.7	89.0	71	36.7	29
East North Central	10,210.5	9,587.2	93.9	91.0	59.1	65	31.9	35
Illinois	3,084.4	2,728.2	88.5	30.4	20.3	67	10.1	33
Indiana	1,196.0	1,150.9	96.2	10.2	4.3	42	5.9	58
Michigan	2,348.6	2,274.5	96.8	23.2	16.4	71	6.8	29
Ohio	2,586.0	2,537.5	98.1	15.9	12.7	80	3.2	20
Wisconsin	995.5	896.2	90.0	11.3	5.4	48	5.9	52
West North Central	3,916.3	3,795.5	96.9	34.7	29.9	86	4.6	14
Iowa	692.6	666.5	96.2	4.2	2.8	67	1.4	33
Kansas	699.1	693.7	99.2	2.4	2.3	96	0.1	4
Minnesota	802.0	759.4	94.7	17.9	15.1	84	2.8	16
Missouri	1,139.1	1,107.9	97.3	5.3	5.2	98	0.1	2
Nebraska	403.8	395.4	97.9	3.5	3.4	97	0.1	3
North Dakota	82.6	77.9	94.3	0.3	b	0	0.3	100
South Dakota	97.1	94.7	97.6	1.1	1.1	100	b	0
SOUTH	11,296.8	10,752.6	95.2	181.6	162.6	90	19.0	10
South Atlantic	3,927.4	3,553.1	90.5	86.3	70.7	82	15.6	18
Delaware	78.8	52.5	66.7	0.7	0.6	86	0.1	14
District of Columbia	132.3	97.3	73.6	2.2	0.2	9	2.0	91
Florida[a]	418.6	408.7	97.6	4.0	3.3	83	0.7	17
Georgia	1,029.7	1,004.4	97.5	49.1	48.4	99	0.7	1
Maryland	735.1	579.5	78.8	7.9	6.0	76	1.9	24
North Carolina	382.1	364.8	95.5	11.2	4.8	43	6.4	57
South Carolina[a]	284.5	255.4	90.0	b	b	b	b	b
Virginia	505.6	435.4	86.1	9.7	6.0	62	3.7	38
West Virginia	360.7	355.0	98.4	1.5	1.4	93	0.1	7
East South Central	2,076.7	2,014.9	97.0	17.9	15.9	89	2.0	11
Alabama	657.9	644.7	98.0	7.4	6.6	89	0.8	11
Kentucky	585.3	553.4	94.5	2.3	2.2	96	0.1	4
Mississippi	366.9	362.1	98.7	1.8	1.5	83	0.3	17
Tennessee	466.6	454.7	97.5	6.4	5.6	88	0.8	12
West South Central	5,292.6	5,184.7	98.0	77.4	76.0	98	1.4	2
Arkansas	462.0	460.7	99.7	1.7	1.7	100	b	0
Louisiana	940.5	932.6	99.2	b	b	b	b	b
Oklahoma	816.3	813.5	99.7	23.7	23.6	99	0.1	1
Texas[a]	3,073.8	2,977.9	96.9	52.0	50.7	98	1.3	2
WEST	10,595.2	10,128.6	95.6	167.9	156.7	93	11.2	7
Mountain	2,654.0	2,613.2	98.5	56.9	55.3	97	1.6	3
Arizona	544.4	518.2	95.2	3.2	3.2	100	b	0
Colorado	852.5	852.2	100.0	29.3	29.3	100	b	0
Idaho	101.2	99.4	98.2	2.6	1.5	58	1.1	42
Montana	168.2	167.6	99.7	0.7	0.7	100	b	0
Nevada	177.5	170.0	95.8	4.8	4.7	98	0.1	2
New Mexico	318.1	318.1	100.0	5.7	5.6	98	0.1	2
Utah[a]	378.3	374.3	98.9	8.9	8.6	97	0.3	3
Wyoming	113.8	113.3	99.6	1.7	1.7	100	b	0
Pacific	7,941.2	7,515.4	94.6	111.0	101.4	91	9.6	9
Alaska	54.9	54.8	100.0	b	b	b	b	b
California	7,234.9	6,865.2	94.9	95.6	95.6	100	b	0
Hawaii	28.9	0.0	0.0	0.0	0.0	0	0.0	0
Oregon	267.5	251.4	94.0	7.8	3.2	41	4.6	59
Washington	354.9	343.9	96.9	7.6	2.6	34	5.0	66

[a]Data not strictly comparable to 1982 due to a change in reporting.

[b]Insufficient data.

Table 4

HOUSEHEATING CONVERSIONS TO NATURAL GAS IN 1983 BY TYPE OF FUEL

Region	Oil		Propane		Electricity		Other		Total	
	Units	%	Units	%	Units	%	Units	%		%
United States	109,883	83	9,391	7	9,060	7	3,795	3	132,129	100
New England	14,666	98	116	1	183	1	34	b	14,999	11
Middle Atlantic	46,487	94	245	1	1,213	2	1,609	3	49,554	38
East North Central	22,858	72	5,618	17	2,174	7	1,274	4	31,924	24
West North Central	4,126	84	568	12	208	4	16	b	4,918	4
South Atlantic	13,500	84	761	5	1,367	9	357	2	15,985	12
East South Central	70	4	991	50	826	41	109	5	1,996	2
West South Central	-	b	581	41	829	59	-	b	1,410	1
Mountain	175	10	343	20	970	57	222	13	1,710	1
Pacific	8,001	83	168	2	1,290	13	174	2	9,633	7

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a"Other" includes conversions from coal, wood, etc.

bLess than 1%.

cDiffers from Table 3 due to slightly different sample size and rounding.

The respondents were asked to provide a breakdown of the converted units by fuel type. The utilities providing data in this category represented 74% of total 1983 conversions. Based on these data, 109,883 units, or 83%, were conversions from fuel oil to gas. The share of fuel oil conversions dropped from 87% in 1982. Propane and electricity accounted for 7% each with 9,391 and 9,060 units, respectively, while other (coal, wood, etc.) accounted for 3,795 (3%).

Approximately 85%, or 112,462 conversions, were in four of the nine Census divisions of the country -- the Middle Atlantic, East North Central, South Atlantic and New England divisions. These same four divisions accounted for 89% of all conversions from fuel oil. While total fuel oil conversions declined by 49% compared to last year, the South Atlantic division showed a 74% decline. On the other hand, conversions from electricity declined the least (22%) compared to last year. Conversions from electricity comprised the majority of conversions in the West South Central and Mountain divisions.

As part of the survey, respondents were asked to project additions to the househeating inventory from both new construction and conversions for 1984 (see Table 5). The results indicate that utilities expect to add approximately 125,000 conversions, or about the same as in 1983. Flat heating oil prices in 1984 coupled with consumer uncertainty over the effects of natural gas pricing legislation would account for this outlook. The projections for gas househeating additions from newly constructed units are up 13% from 1983 to 506,200 units. This means that new housing would account for 80% of total anticipated househeating additions, while total househeating additions would increase by 9%.

New Hook-up Requirements

The status of new hook-up requirements in 1983 has not changed much from 1982. In all, 26 utilities reported some kind of restriction or requirement on hooking-up new customers in 1982. Six gas companies reported surcharges or economic feasibility tests on new customer hook-ups. More than half of the reported restrictions, 16, were conservation-oriented requirements such as minimum insulation or structural standards set by state authorities for new customers.

Of the 26 companies reporting some form of restriction or requirement, 14 were in the North Central region (most conservation-oriented requirements were in this region), while the Northeast and South regions followed with 8 and 4, respectively. There were no reported restrictions in the West region.

Heating Appliance Data

There was a 45% increase in manufacturers' shipments of residential heating equipment (see Table 6), which is consistent with the increase in 1983 in housing completions and starts. Shipments of gas warm air furnaces increased in 1983, by 44%, compared to an 18%

Table 5

1984 ANTICIPATED ADDITIONS
OF GAS HOUSEHEATING UNITS
(Thousands)

Region, Division, and State	Total (100%)	New Housing Number	New Housing (%)	Conversions Number	Conversions (%)
United States	630.9	506.2	80	124.7	20
NORTHEAST	108.3	48.0	44	60.3	56
New England	26.2	9.8	37	16.4	63
Connecticut	10.8	4.0	37	6.8	63
Maine	0.1	0.1	100	a	0
Massachusetts	11.5	4.1	36	7.4	64
New Hampshire	1.8	1.2	67	0.6	33
Rhode Island	1.0	0.1	10	0.9	90
Vermont	1.0	0.3	30	0.7	70
Middle Atlantic	82.1	38.2	47	43.9	53
New Jersey	42.0	21.1	50	20.9	50
New York	20.0	6.2	31	13.8	69
Pennsylvania	20.1	10.9	54	9.2	46
NORTH CENTRAL	138.4	106.2	77	32.2	23
East North Central	110.9	81.5	73	29.4	27
Illinois	32.0	24.4	76	7.6	24
Indiana	14.7	6.8	46	7.9	54
Michigan	31.6	27.0	85	4.6	15
Ohio	21.7	18.4	85	3.3	15
Wisconsin	10.9	4.9	45	6.0	55
West North Central	27.5	24.7	90	2.8	10
Iowa	2.8	2.5	89	0.3	11
Kansas	2.4	2.3	96	0.1	4
Minnesota	14.0	11.9	85	2.1	15
Missouri	4.3	4.1	95	0.2	5
Nebraska	3.0	2.9	97	0.1	3
North Dakota	a	a	a	a	a
South Dakota	1.0	1.0	100	a	0
SOUTH	175.6	157.4	90	18.2	10
South Atlantic	87.7	73.1	83	14.6	17
Delaware	0.2	a	0	0.2	100
District of Columbia	2.3	0.3	13	2.0	87
Florida	5.7	4.8	84	0.9	16
Georgia	48.5	47.8	99	0.7	1
Maryland	6.7	5.2	78	1.5	22
North Carolina	14.2	6.6	46	7.6	54
South Carolina	a	a	a	a	a
Virginia	8.4	6.9	82	1.5	18
West Virginia	1.7	1.5	88	0.2	12
East South Central	16.5	14.5	88	2.0	12
Alabama	5.1	4.6	90	0.5	10
Kentucky	2.1	2.0	95	0.1	5
Mississippi	2.2	1.8	82	0.4	18
Tennessee	7.1	6.1	86	1.0	14
West South Central	71.4	69.8	98	1.6	2
Arkansas	a	a	a	a	a
Louisiana	a	a	a	a	a
Oklahoma	16.1	15.8	98	0.3	2
Texas	55.3	54.0	98	1.3	2
WEST	208.6	194.6	93	14.0	7
Mountain	59.2	56.9	96	2.3	4
Arizona	2.8	2.8	100	a	0
Colorado	29.8	29.8	100	a	0
Idaho	3.1	1.5	48	1.6	52
Montana	0.2	0.2	100	a	0
Nevada	5.1	4.9	96	0.2	4
New Mexico	5.3	5.2	98	0.1	2
Utah	12.0	11.6	97	0.4	3
Wyoming	0.9	0.9	100	a	0
Pacific	149.4	137.7	92	11.7	8
Alaska	a	a	a	a	a
California	131.0	131.0	100	a	0
Hawaii	a	a	a	a	a
Oregon	8.3	3.4	41	4.9	59
Washington	10.1	3.3	33	6.8	67

[a]Insufficient data.

Table 6

MANUFACTURERS' SHIPMENTS OF
RESIDENTIAL HEATING EQUIPMENT, 1979-1983

Category	1979	1980	1981	1982	1983	Percentage Change from 1982
Central Heating Equipment						
Warm Air Furnaces						
Gas	1,862,600	1,445,700	1,416,700	1,155,600	1,661,765	+44
Oil[a]	157,800	63,700	81,200	103,500	127,305	+23
Electricity	283,200	227,400	234,500	177,100	339,950	+92
Boilers						
Gas	221,300	293,300	161,600	147,600	147,710	0
Oil[a]	85,059	51,672	67,492	72,822	82,622	+13
Electric Heat Pumps	547,694	422,829	504,786	383,515	629,776	+64
Other Gas Heating Equipment						
Wall Furnaces	207,000	199,390	127,160	132,640	168,310	+27
Floor Furnaces	15,560	12,240	10,552	18,811	18,775	0
Total Residential Heating Equipment	3,380,313	2,716,231	2,603,990	2,191,588	3,176,213	+45

[a]Data not expanded.

Source: Gas Appliance Manufacturers Association, Statistical Highlights, March 9, 1984. Heat pump data obtained from the Air Conditioning and Refrigeration Institute.

decline in 1983. Gas boiler shipments were about the same as in 1982. Gas wall furnace shipments, however, rose 27%.

Electric warm air furnace shipments increased by 92% in 1983, while heat pump shipments increased 64%. Shipments of oil warm air furnaces increased 23% in 1983, while oil boiler shipments increased 13%.

Gas Consumption Per Unit

Respondents to the survey were asked to estimate the average annual gas consumption for both single and multifamily dwellings. Utilities representing 87% of all gas househeating customers responded to this portion in the survey. These responses were then used to develop the U.S. and regional average estimates of per unit gas use. Both categories were weighted by the number of residential gas customers for each responding utility in each state. In addition, the multifamily data represented a weighted average of dwellings with 2-4 units, and dwellings with 5 or more units (see Table 7).

Due to changes in the reporting methods of some utilities, particularly in the definition of baseload and multifamily gas use and consumption per unit, consumption data from year to year are not always comparable. With this caveat in mind, a review of 1983 combined average consumption data (U.S. average weighted by customer and dwelling type) indicated that total per unit gas consumption was 98.7 Mcf for all units, while househeating was 69.0 Mcf and baseload consumption was 29.7 Mcf. In single family dwellings, gas consumption for househeating was 75.5 Mcf, while baseload consumption was 31.4 Mcf. By comparison the average multifamily dwelling unit consumed 52.6 and 25.5 Mcf, respectively, for househeating and baseload use.

Climatic conditions have the most significant impact on gas use for househeating purposes, but the size and thermal integrity of the structure must also be considered. Reflecting these factors, single family unit consumption was highest for househeating in the Northeast region at 100.8 Mcf, and lowest in the West region at 54.5 Mcf. Gas consumption for househeating in multifamily dwellings followed a similar pattern with per unit consumption in the Northeast region at 70.9 Mcf, with a low of 29.1 Mcf in the West region. Table 7 includes weather data for each region in the form of annual heating degree days for calendar year 1983 and the 30-year normal heating degree days. The degree day data are weighted by gas househeating customers.

Gas consumption for baseload use, which may include water heating, cooking, clothes drying and air conditioning, will vary with the size and type of appliance in the unit. Baseload consumption also has some seasonality reflecting lifestyle preferences under the various climatic conditions. For single family dwellings, baseload consumption was lowest in the West region at 25.8 Mcf, and highest in the Northeast region at 38.4 Mcf. Baseload consumption for multifamily dwellings ranged from 22.6 Mcf in the West to 28.9 Mcf in the Northeast.

Table 7

1983 AVERAGE ANNUAL GAS CONSUMPTION/UNIT[a]
BY REGION
(Mcf)

Region	Single Family	Multi-Family[b]	Combined Average[c]	Heating Degree Days[d] 1983	Heating Degree Days[d] 30-year Normal
Northeast					
Heating	101.6	70.9	88.7	5,523	5,765
Baseload	38.4	28.9	34.4		
Total	140.0	99.8	123.1		
North Central					
Heating	91.9	69.0	85.9	6,300	6,381
Baseload	31.7	24.6	30.0		
Total	123.6	93.6	115.9		
South					
Heating	60.4	44.8	57.1	3,215	3,002
Baseload	30.2	26.7	29.5		
Total	90.6	71.5	86.6		
West					
Heating	54.5	29.1	46.9	2,625	2,829
Baseload	25.8	22.6	24.8		
Total	80.3	51.7	71.7		
U.S. Average					
Heating	75.6	52.6	69.0	4,426	4,495
Baseload	31.4	25.5	29.7		
Total	107.0	78.1	98.7		

[a]Results for 1983 are based on responses from 156 different markets.

[b]Weighted average of dwellings containing 2-4 units and dwellings containing 5 units or more.

[c]Weighted by customer and dwelling type.

[d]Calendar year heating degree days as reported are then weighted by gas househeating customers (see Appendix 1 for detailed definitions). The 30-year normal are also weighted by gas househeating customers as opposed to total population.

Conservation

This year the survey requested information regarding the amount of conservation which occurred between the pre-embargo 1973 baseline period and 1983. Companies representing 68% of the gas househeating customers in the United States indicated that conservation, measured as the total percentage decline in consumption per househeating customer not explained by the weather, has reduced consumption in the United States to an average of 25.0% below the pre-1973 level. Conservation percentages reported by each company were weighted by househeating customer data from each company to derive regional and national conservation estimates. The magnitude of conservation ranged from high of 28.7% below the pre-1973 level of consumption in the Mountain region to a low of 20.5% in the East South Central region (see Table 8).

Table 8

1983 AVERAGE CONSERVATION BY REGION
(Percent Decline from 1973 Baseline)

Region	Conservation[a] (%)
Northeast	22.0
New England	21.6
Middle Atlantic	22.1
North Central	27.1
East North Central	27.5
West North Central	25.4
South	22.9
South Atlantic	21.5
East South Central	20.5
West South Central	24.8
West	27.0
Mountain	28.7
Pacific	26.3
United States	25.0

[a]The total percent decline in consumption normalized for weather from the pre-embargo 1973 baseline. Results for 1983 are based on individual company responses from 111 different markets and are weighted by househeating customers.

APPENDIX 1

HOUSEHEATING DATA
1983 ACTUAL AND 1984 ANTICIPATED
BY COMPANY

This Appendix presents gas househeating data obtained from asurvey of 157 companies on a regional, state and company-by-company basis. Column 1 of the Appendix shows reported residential and househeating customers. Beginning with the 1983 survey, residential and househeating customer data have been reconciled with the A.G.A. Uniform Statistical Reports, which form the basis of the A.G.A. Gas Facts publication. A gas customer is equal to a meter for billing purposes, while a househeating unit refers to the number of actual residences which use gas for space heating. Column 2 provides average baseload and heating consumption per customer, and the number of heating degree days (A heating degree day is a measure of the coldness of the weather, based on the extent to which the daily mean temperature falls below a reference temperature, usually 65°F). Column 3 shows the gas heating market share, defined as the percentage of total dwelling units in the franchise areas that are served by gas for househeating.

The market share should not be confused with househeating saturation, which is the number of gas househeating customers as a percentage of the total number of gas customers on a given system. It should also be noted that reported market share figures, in particular, may be inconsistent in some cases due to different interpretations for an individual utility from year to year. This question was revised in 1981 so that data reported in subsequent years may remain consistent. Column 4 summarizes reported househeating unit additions for 1983 and anticipated for 1984, disaggregated into additions from new construction, conversions, losses and net additions. In some cases, a change in methodology may result in inconsistent annual data for an individual utility.

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
NEW ENGLAND									
CONNECTICUT									
SOUTHERN CONNECTICUT GAS CO.					1983	700	2,000	680	2,020
ALL RESIDENTIAL	124,612		26.0	33	1984	800	2,230	760	2,270
HOUSEHEATING ONLY	76,169	113.0							
HEATING DEGREE DAYS		5,550							
CONNECTICUT NATURAL GAS					1983	1,178	2,456	120	3,494
ALL RESIDENTIAL	115,760		35.0	42	1984	1,200	3,000	120	4,080
HOUSEHEATING ONLY	80,204	88.0							
HEATING DEGREE DAYS		5,908							
NORTHEAST UTILITIES					1983	2,125	2,079	260	3,944
ALL RESIDENTIAL	140,293		35.0	16	1984	2,000	1,610	90	3,520
HOUSEHEATING ONLY	81,602	110.0							
HEATING DEGREE DAYS		5,909							
NEW ENGLAND									
MASSACHUSETTS									
BOSTON GAS CO.					1983	525	2,704	NA	NA
ALL RESIDENTIAL	446,257		42.0	34	1984	600	3,000	NA	NA
HOUSEHEATING ONLY	224,247	112.0							
HEATING DEGREE DAYS		5,358							
COLONIAL GAS CO.					1983	NA	NA	NA	NA
ALL RESIDENTIAL	34,390		35.0	60	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	30,090	85.0							
HEATING DEGREE DAYS		5,653							
COMMONWEALTH GAS CO.					1983	NA	NA	1,000	NA
ALL RESIDENTIAL	186,602		30.0	NA	1984	NA	NA	1,000	NA
HOUSEHEATING ONLY	149,147	120.0							
HEATING DEGREE DAYS		5,833							
FALL RIVER GAS CO.					1983	147	212	10	349
ALL RESIDENTIAL	36,602		30.0	78	1984	130	155	20	265
HOUSEHEATING ONLY	30,528	110.0							
HEATING DEGREE DAYS		5,584							
BAY STATE GAS CO.					1983	440	1,520	30	1,910
ALL RESIDENTIAL	183,061		23.0	32	1984	640	1,520	30	2,110
HOUSEHEATING ONLY	120,212	116.0							
HEATING DEGREE DAYS		5,500							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY NONF (MCF/YR) HEAT-ING	CONSUMPTION PER SINGLE FAMILY NONF (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONSI	CON-VER-SIONS	LESS LOSSES	NET ADDI-ITIONS
NEW ENGLAND									
MASSACHUSETTS									
ESSEX COUNTY GAS CO.					1985	200	400	150	450
ALL RESIDENTIAL	27,290		20.0	50	1984	300	450	175	575
HOUSEHEATING ONLY	19,025	110.0							
HEATING DEGREE DAYS		6,678							
LOWELL GAS CO.					1985	795	56	70	781
ALL RESIDENTIAL	47,080		40.0	51	1984	1,200	154	70	1,284
HOUSEHEATING ONLY	41,713	96.0							
HEATING DEGREE DAYS		5,910							
NEW ENGLAND									
MAINE									
NORTHERN UTILITIES INC.					1985	50	100	171	-21
ALL RESIDENTIAL	12,556		21.0	5	1984	100	NA	NA	NA
HOUSEHEATING ONLY	9,555	85.0							
HEATING DEGREE DAYS		7,764							
NEW ENGLAND									
NEW HAMPSHIRE									
CONCORD NATURAL GAS CORP.					1985	25	103	4	124
ALL RESIDENTIAL	5,489		50.0	19	1984	50	100	3	147
HOUSEHEATING ONLY	3,774	110.0							
HEATING DEGREE DAYS		7,084							
GAS SERVICE, INC.					1985	465	142	0	607
ALL RESIDENTIAL	18,747		56.0	38	1984	625	189	0	814
HOUSEHEATING ONLY	17,231	170.0							
HEATING DEGREE DAYS		7,020							
MANCHESTER GAS CO.					1985	200	50	16	234
ALL RESIDENTIAL	14,400		56.0	35	1984	400	128	18	510
HOUSEHEATING ONLY	9,760	100.0							
HEATING DEGREE DAYS		7,060							
NORTHERN UTILITIES, INC.					1985	144	200	96	248
ALL RESIDENTIAL	7,747		25.0	16	1984	150	220	NA	NA
HOUSEHEATING ONLY	7,040	80.0							
HEATING DEGREE DAYS		7,764							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
NEW ENGLAND									
RHODE ISLAND									
VALLEY GAS CO.					1983	95	756	72	779
ALL RESIDENTIAL	44,139		40.0	43	1984	105	855	70	890
HOUSEHEATING ONLY	31,991	105.0							
HEATING DEGREE DAYS		6,038							
NEW ENGLAND									
VERMONT									
VERMONT GAS SYSTEMS					1983	140	219	NA	NA
ALL RESIDENTIAL	11,590		36.0	NA	1984	325	725	60	990
HOUSEHEATING ONLY	9,650	107.0							
HEATING DEGREE DAYS		7,006							
MIDDLE ATLANTIC									
NEW JERSEY									
SOUTH JERSEY GAS CO.					1983	1,500	2,000	0	3,500
ALL RESIDENTIAL	186,473		33.6	40	1984	1,500	1,940	26	3,414
HOUSEHEATING ONLY	112,930	71.2							
HEATING DEGREE DAYS		4,188							
NEW JERSEY NATURAL GAS CO.					1983	5,112	1,385	NA	NA
ALL RESIDENTIAL	205,079		40.2	38	1984	9,100	NA	NA	NA
HOUSEHEATING ONLY	165,364	77.9							
HEATING DEGREE DAYS		4,975							
PUBLIC SERVICE ELEC. & GAS					1983	7,038	17,327	40	24,325
ALL RESIDENTIAL	1,194,259		35.0	57	1984	10,500	19,000	40	29,460
HOUSEHEATING ONLY	697,494	98.0							
HEATING DEGREE DAYS		4,677							
MIDDLE ATLANTIC									
NEW YORK									
BROOKLYN UNION GAS CO.					1983	1,160	11,676	1,200	11,640
ALL RESIDENTIAL	1,041,714		43.0	45	1984	1,500	10,000	1,200	10,300
HOUSEHEATING ONLY	326,360	91.0							
HEATING DEGREE DAYS		4,319							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MAT SHARE (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONSTRUCTION	CONVERSIONS	LESS LOSSES	NET ADDITIONS
MIDDLE ATLANTIC									
NEW YORK									
CENTRAL HUDSON GAS & ELEC.					1983	288	821	NA	NA
ALL RESIDENTIAL	83,060		50.0	17	1984	286	571	NA	NA
HOUSEHEATING ONLY	28,000	63.0							
HEATING DEGREE DAYS		6,430							
NIAGARA MOHAWK POWER CORP.					1983	NA	2,300	350	NA
ALL RESIDENTIAL	400,519		57.0	34	1984	NA	1,800	350	NA
HOUSEHEATING ONLY	320,970	156.0							
HEATING DEGREE DAYS		7,442							
CONSOLIDATED EDISON CO.					1983	NA	NA	NA	NA
ALL RESIDENTIAL	934,550		52.0	42	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	164,535	121.0							
HEATING DEGREE DAYS		4,067							
NATIONAL FUEL GAS DISTR.					1983	1,211	242	826	627
ALL RESIDENTIAL	457,364		59.0	85	1984	1,345	359	917	787
HOUSEHEATING ONLY	437,944	91.0							
HEATING DEGREE DAYS		6,502							
LONG ISLAND LIGHTING CO.					1983	683	2,453	NA	NA
ALL RESIDENTIAL	568,328		20.4	21	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	177,567	124.6							
HEATING DEGREE DAYS		4,905							
NEW YORK STATE ELEC. & GAS					1983	NA	NA	NA	NA
ALL RESIDENTIAL	111,780		35.0	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	103,040	98.0							
HEATING DEGREE DAYS		6,840							
ROCHESTER GAS & ELEC.					1983	1,989	1,555	NA	NA
ALL RESIDENTIAL	216,317		34.4	NA	1984	1,719	676	NA	NA
HOUSEHEATING ONLY	187,071	91.2							
HEATING DEGREE DAYS		6,505							
ORANGE & ROCKLAND UTILITIES					1983	956	470	0	1,426
ALL RESIDENTIAL	83,352		41.0	56	1984	1,000	200	0	1,200
HOUSEHEATING ONLY	77,086	109.0							
HEATING DEGREE DAYS		5,797							
COLUMBIA GAS OF NEW YORK					1983	225	29	645	-391
ALL RESIDENTIAL	56,487		32.7	66	1984	310	40	NA	NA
HOUSEHEATING ONLY	53,233	78.6							
HEATING DEGREE DAYS		6,796							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
MIDDLE ATLANTIC									
NEW YORK									
ST. LAWRENCE GAS CO.					1983	6	138	23	121
ALL RESIDENTIAL	9,379		34.0	75	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	8,464	126.0							
HEATING DEGREE DAYS		7,963							
MIDDLE ATLANTIC									
PENNSYLVANIA									
EQUITABLE GAS CO.					1983	1,312	54	887	479
ALL RESIDENTIAL	227,717		39.0	NA	1984	1,400	50	700	750
HOUSEHEATING ONLY	222,683	95.0							
HEATING DEGREE DAYS		5,663							
NATIONAL FUEL GAS DISTR.					1983	361	60	343	78
ALL RESIDENTIAL	184,335		37.0	76	1984	412	63	377	118
HOUSEHEATING ONLY	181,409	95.0							
HEATING DEGREE DAYS		5,660							
NORTH PENN GAS CO.					1983	NA	NA	NA	NA
ALL RESIDENTIAL	27,586		39.0	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	27,429	70.0							
HEATING DEGREE DAYS		6,671							
THE PEOPLES NATURAL GAS CO.					1983	1,356	234	751	839
ALL RESIDENTIAL	300,002		53.0	NA	1984	1,408	380	751	1,037
HOUSEHEATING ONLY	291,221	92.0							
HEATING DEGREE DAYS		5,954							
PHILADELPHIA ELECTRIC CO.					1983	1,710	2,923	100	4,533
ALL RESIDENTIAL	278,944		30.0	38	1984	2,380	2,631	100	4,911
HOUSEHEATING ONLY	206,483	110.0							
HEATING DEGREE DAYS		5,092							
PHILADELPHIA GAS WORKS					1983	1,577	1,598	1,000	2,175
ALL RESIDENTIAL	509,261		48.0	71	1984	1,700	1,800	1,000	2,500
HOUSEHEATING ONLY	387,040	113.0							
HEATING DEGREE DAYS		4,949							
PIKE COUNTY LIGHT & POWER					1983	1	7	0	8
ALL RESIDENTIAL	854		42.0	31	1984	0	0	0	0
HOUSEHEATING ONLY	802	88.0							
HEATING DEGREE DAYS		5,797							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONSTR	CONVERSIONS	LESS LOSSES	NET ADDITIONS
MIDDLE ATLANTIC									
PENNSYLVANIA									
PENNSYLVANIA GAS & WATER CO.					1985	133	970	400	703
ALL RESIDENTIAL	105,781		24.0	48	1984	250	1,190	425	1,015
HOUSEHEATING ONLY	81,650	157.0							
HEATING DEGREE DAYS		6,376							
UGI CORP.					1985	928	2,192	56	3,064
ALL RESIDENTIAL	189,058		29.5	25	1984	850	2,013	NA	NA
HOUSEHEATING ONLY	115,106	78.6							
HEATING DEGREE DAYS		5,584			1				
COLUMBIA GAS OF PENNSYLVANIA					1985	1,800	551	945	1,406
ALL RESIDENTIAL	305,020		36.4	69	1984	2,000	610	NA	NA
HOUSEHEATING ONLY	285,567	83.8							
HEATING DEGREE DAYS		5,531							
EAST NORTH CENTRAL									
ILLINOIS									
CENTRAL ILLINOIS LIGHT CO.					1985	350	220	300	270
ALL RESIDENTIAL	168,433		27.0	74	1984	350	175	200	325
HOUSEHEATING ONLY	163,838	87.0							
HEATING DEGREE DAYS		5,887							
CENTRAL IL. PUBLIC SERVICE					1985	300	300	617	-17
ALL RESIDENTIAL	140,094		20.0	80	1984	500	350	100	750
HOUSEHEATING ONLY	136,241	85.0							
HEATING DEGREE DAYS		5,784							
ILLINOIS POWER CO.					1985	1,038	651	1,450	259
ALL RESIDENTIAL	549,099		22.4	83	1984	2,530	NA	NA	NA
HOUSEHEATING ONLY	537,270	84.8							
HEATING DEGREE DAYS		5,167							
IOWA-ILLINOIS GAS & ELEC.					1985	304	26	NA	NA
ALL RESIDENTIAL	59,226		13.8	85	1984	200	23	NA	NA
HOUSEHEATING ONLY	56,601	103.1							
HEATING DEGREE DAYS		6,549							
NORTH SHORE GAS CO.					1985	365	636	100	921
ALL RESIDENTIAL	92,468		45.0	91	1984	800	450	200	1,050
HOUSEHEATING ONLY	87,621	135.0							
HEATING DEGREE DAYS		6,459							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE (%)	YEAR	GAS-HTD HOUSING UNIT ADDITIONS NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
EAST NORTH CENTRAL									
ILLINOIS									
PEOPLES GAS LIGHT & COKE CO.					1983	1,500	4,700	3,600	2,600
ALL RESIDENTIAL	821,851		42.0	95	1984	2,000	3,500	3,400	2,100
HOUSEHEATING ONLY	571,961	135.0							
HEATING DEGREE DAYS		6,443							
NORTHERN ILLINOIS GAS CO.					1983	16,428	3,512	4,500	15,440
ALL RESIDENTIAL	1,333,964		35.0	86	1984	18,000	3,100	4,500	16,600
HOUSEHEATING ONLY	1,267,215	113.0							
HEATING DEGREE DAYS		5,925							
UNITED CITIES GAS CO.					1983	NA	NA	NA	NA
ALL RESIDENTIAL	13,861		22.0	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	13,438	79.0							
HEATING DEGREE DAYS		4,668							
EAST NORTH CENTRAL									
INDIANA									
CITIZENS GAS & COKE					1983	NA	NA	NA	NA
ALL RESIDENTIAL	197,764		43.0	75	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	185,359	97.0							
HEATING DEGREE DAYS		5,607							
HOOSIER GAS CORP.					1983	171	40	178	33
ALL RESIDENTIAL	20,708		26.0	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	20,465	81.0							
HEATING DEGREE DAYS		4,856							
INDIANA GAS CO.					1983	658	4,142	3,156	1,644
ALL RESIDENTIAL	283,019		30.3	84	1984	1,200	5,700	2,725	4,175
HOUSEHEATING ONLY	277,355	89.2							
HEATING DEGREE DAYS		5,128							
KOKOMO GAS & FUEL CO.					1983	0	NA	NA	NA
ALL RESIDENTIAL	25,959		28.0	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	25,535	116.4							
HEATING DEGREE DAYS		5,799							
LAWRENCEBURG GAS CO.					1983	NA	30	41	NA
ALL RESIDENTIAL	3,598		30.0	NA	1984	NA	80	60	NA
HOUSEHEATING ONLY	3,539	90.0							
HEATING DEGREE DAYS		5,392							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
EAST NORTH CENTRAL									
INDIANA									
NORTHERN IN. PUBLIC SERVICE					1983	3,000	1,265	608	3,657
ALL RESIDENTIAL	491,340		35.0	NA	1984	5,000	1,600	500	6,100
HOUSEHEATING ONLY	460,747	90.0							
HEATING DEGREE DAYS		6,853							
OHIO VALLEY GAS CORP.					1983	93	20	337	-224
ALL RESIDENTIAL	21,505		26.0	97	1984	85	49	166	-32
HOUSEHEATING ONLY	21,065	125.0							
HEATING DEGREE DAYS		5,032							
RICHMOND GAS CORP.					1983	14	46	61	-1
ALL RESIDENTIAL	12,188		31.6	87	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	11,025	107.2							
HEATING DEGREE DAYS		6,354							
MIDWEST NATURAL GAS CORP.					1983	80	NA	15	NA
ALL RESIDENTIAL	6,970		60.0	98	1984	50	NA	15	NA
HOUSEHEATING ONLY	6,842	150.0							
HEATING DEGREE DAYS		5,009							
EAST NORTH CENTRAL									
MICHIGAN									
BATTLE CREEK GAS CO.					1983	11	347	10	348
ALL RESIDENTIAL	28,791		32.2	93	1984	10	405	10	405
HOUSEHEATING ONLY	27,165	121.2							
HEATING DEGREE DAYS		6,255							
CONSUMERS POWER CO.					1983	10,000	2,800	NA	NA
ALL RESIDENTIAL	1,101,795		26.2	82	1984	19,400	1,000	NA	NA
HOUSEHEATING ONLY	1,075,332	114.9							
HEATING DEGREE DAYS		6,591							
SOUTHEASTERN MICHIGAN GAS					1983	426	125	260	291
ALL RESIDENTIAL	61,148		22.5	69	1984	1,196	136	NA	NA
HOUSEHEATING ONLY	60,303	104.8							
HEATING DEGREE DAYS		7,636							
LAKE SUPERIOR DIST. POWER					1983	NA	NA	20	NA
ALL RESIDENTIAL	3,683		28.0	46	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	3,611	94.0							
HEATING DEGREE DAYS		9,136							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE (%)	YEAR	GAS-HTD HOUSING UNIT ADDITIONS NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
EAST NORTH CENTRAL									
MICHIGAN									
MICHIGAN CONSOLIDATED GAS					1983	4,940	2,080	4,900	2,120
ALL RESIDENTIAL	975,073		45.0	85	1984	5,000	1,900	5,000	1,900
HOUSEHEATING ONLY	934,048	110.0							
HEATING DEGREE DAYS		6,718							
MICHIGAN POWER CO.					1983	375	372	174	573
ALL RESIDENTIAL	63,340		26.6	71	1984	660	385	30	1,015
HOUSEHEATING ONLY	62,549	104.7							
HEATING DEGREE DAYS		6,509							
MICHIGAN GAS UTILITIES CO.					1983	617	1,115	629	1,103
ALL RESIDENTIAL	98,084		33.2	69	1984	698	790	594	894
HOUSEHEATING ONLY	95,714	90.4							
HEATING DEGREE DAYS		6,602							
WISCONSIN PUBLIC SERVICE					1983	NA	NA	NA	NA
ALL RESIDENTIAL	4,290		32.0	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	4,013	86.0							
HEATING DEGREE DAYS		8,025							
EAST NORTH CENTRAL									
OHIO									
CINCINNATI GAS & ELEC.					1983	NA	NA	733	NA
ALL RESIDENTIAL	269,544		35.0	NA	1984	NA	NA	1,200	NA
HOUSEHEATING ONLY	250,012	90.0							
HEATING DEGREE DAYS		5,392							
DAYTON POWER & LIGHT CO.					1983	738	128	1,282	-416
ALL RESIDENTIAL	243,315		NA	68	1984	1,674	NA	NA	NA
HOUSEHEATING ONLY	240,254	NA							
HEATING DEGREE DAYS		5,959							
EAST OHIO GAS CO.					1983	3,946	1,427	8,425	948
ALL RESIDENTIAL	920,963		45.0	99	1984	5,300	1,100	6,000	400
HOUSEHEATING ONLY	918,641	112.0							
HEATING DEGREE DAYS		5,702							
NATIONAL GAS & OIL CORP.					1983	153	NA	41	NA
ALL RESIDENTIAL	14,744		24.8	100	1984	150	NA	30	NA
HOUSEHEATING ONLY	14,744	78.1							
HEATING DEGREE DAYS		6,378							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTG MKT SHARE (%)	GAS-HTG HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
EAST NORTH CENTRAL									
OHIO									
NATIONAL FUEL GAS DISTR.					1985	10	5	25	-10
ALL RESIDENTIAL	5,595		34.0	75	1984	32	10	11	31
HOUSEHEATING ONLY	5,505	96.0							
HEATING DEGREE DAYS		5,660							
OHIO GAS CO.					1985	30	140	28	142
ALL RESIDENTIAL	22,615		40.0	80	1984	30	45	25	70
HOUSEHEATING ONLY	22,610	155.0							
HEATING DEGREE DAYS		6,461							
TOLEDO EDISON CO.					1985	3	30	0	33
ALL RESIDENTIAL	4,709		31.0	67	1984	5	20	0	25
HOUSEHEATING ONLY	4,557	87.7							
HEATING DEGREE DAYS		6,484							
WEST OHIO GAS CO.					1985	122	92	222	-8
ALL RESIDENTIAL	49,505		25.0	84	1984	120	200	100	220
HOUSEHEATING ONLY	46,019	90.0							
HEATING DEGREE DAYS		5,209							
COLUMBIA GAS OF OHIO					1985	7,485	1,358	6,717	2,106
ALL RESIDENTIAL	981,418		32.2	75	1984	11,060	1,970	NA	NA
HOUSEHEATING ONLY	970,496	63.6							
HEATING DEGREE DAYS		5,674							
EAST NORTH CENTRAL									
WISCONSIN									
LAKE SUPERIOR DIST. POWER					1985	33	114	NA	NA
ALL RESIDENTIAL	6,039		28.0	22	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	5,927	92.0							
HEATING DEGREE DAYS		7,130							
MADISON GAS & ELECTRIC					1985	441	168	NA	NA
ALL RESIDENTIAL	62,716		31.8	70	1984	615	130	NA	NA
HOUSEHEATING ONLY	56,249	88.2							
HEATING DEGREE DAYS		7,782							
WISCONSIN GAS CO.					1985	1,111	2,161	191	3,081
ALL RESIDENTIAL	580,691		37.0	78	1984	868	2,040	NA	NA
HOUSEHEATING ONLY	529,582	95.0							
HEATING DEGREE DAYS		7,203							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
EAST NORTH CENTRAL									
WISCONSIN									
NORTHERN STATES POWER CO.					1983	294	306	183	417
ALL RESIDENTIAL	28,280		22.0	19	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	24,022	78.0							
HEATING DEGREE DAYS		7,296							
SUPERIOR WATER,LIGHT & POWER					1983	2	20	8	14
ALL RESIDENTIAL	8,043		26.0	57	1984	10	40	10	40
HOUSEHEATING ONLY	5,587	142.4							
HEATING DEGREE DAYS		9,546							
WISCONSIN FUEL & LIGHT CO.					1983	NA	NA	NA	NA
ALL RESIDENTIAL	34,410		27.6	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	32,508	89.5							
HEATING DEGREE DAYS		7,958							
WISCONSIN POWER & LIGHT					1983	878	976	271	1,583
ALL RESIDENTIAL	90,360		24.7	80	1984	725	1,682	280	2,127
HOUSEHEATING ONLY	85,335	92.0							
HEATING DEGREE DAYS		7,782							
WISCONSIN PUBLIC SERVICE					1983	NA	NA	NA	NA
ALL RESIDENTIAL	137,036		32.0	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	127,759	86.0							
HEATING DEGREE DAYS		8,025							
WISCONSIN SOUTHERN GAS CO.					1983	338	808	20	1,126
ALL RESIDENTIAL	34,495		30.0	80	1984	400	700	20	1,080
HOUSEHEATING ONLY	33,276	95.0							
HEATING DEGREE DAYS		7,240							
WISCONSIN NATURAL GAS CO.					1983	2,208	1,327	NA	NA
ALL RESIDENTIAL	203,178		11.8	75	1984	2,252	1,430	NA	NA
HOUSEHEATING ONLY	186,592	113.8							
HEATING DEGREE DAYS		7,762							
WEST NORTH CENTRAL									
IOWA									
IOWA ELECTRIC LIGHT & POWER					1983	NA	942	NA	NA
ALL RESIDENTIAL	114,620		30.0	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	111,835	87.0							
HEATING DEGREE DAYS		7,101							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	SINGLE FAMILY HOME (MCF/YR) HEATING	SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	MKT SHARE (%)	YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
WEST NORTH CENTRAL									
IOWA									
IOWA-ILLINOIS GAS & ELECTRIC					1983	1,290	50	NA	NA
ALL RESIDENTIAL	147,119		16.3	85	1984	800	55	NA	NA
HOUSEHEATING ONLY	141,119	95.1							
HEATING DEGREE DAYS		6,685							
IOWA POWER & LIGHT CO.					1983	630	NA	NA	NA
ALL RESIDENTIAL	119,079		27.0	90	1984	850	130	105	875
HOUSEHEATING ONLY	115,927	104.5							
HEATING DEGREE DAYS		6,599							
IOWA PUBLIC SERVICE CO.					1983	NA	NA	NA	NA
ALL RESIDENTIAL	100,130		NA	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	93,042	NA							
HEATING DEGREE DAYS		7,564							
NORTH CENTRAL PUBLIC SERVICE					1983	71	24	53	42
ALL RESIDENTIAL	11,250		45.0	88	1984	115	24	38	101
HOUSEHEATING ONLY	11,116	110.0							
HEATING DEGREE DAYS		6,257							
WEST NORTH CENTRAL									
KANSAS									
ARKANSAS LOUISIANA GAS CO.					1983	NA	NA	NA	NA
ALL RESIDENTIAL	17,995		56.5	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	17,995	60.5							
HEATING DEGREE DAYS		5,553							
MIDWEST ENERGY, INC.					1983	246	NA	NA	NA
ALL RESIDENTIAL	9,108		30.8	90	1984	220	NA	NA	NA
HOUSEHEATING ONLY	9,108	112.3							
HEATING DEGREE DAYS		5,935							
KN ENERGY, INC.					1983	NA	NA	NA	NA
ALL RESIDENTIAL	25,461		45.0	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	22,992	62.0							
HEATING DEGREE DAYS		6,797							
KANSAS POWER & LIGHT CO.					1983	1,560	92	417	1,235
ALL RESIDENTIAL	118,773		28.0	90	1984	1,600	78	356	1,322
HOUSEHEATING ONLY	115,210	88.0							
HEATING DEGREE DAYS		5,430							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
WEST NORTH CENTRAL									
MINNESOTA									
AUSTIN UTILITIES					1983	35	13	35	13
ALL RESIDENTIAL	8,378		38.0	99	1984	25	120	23	122
HOUSEHEATING ONLY	8,345	108.0							
HEATING DEGREE DAYS		7,771							
CITY OF DULUTH					1983	44	190	10	224
ALL RESIDENTIAL	19,403		45.0	70	1984	30	150	NA	NA
HOUSEHEATING ONLY	12,176	140.0							
HEATING DEGREE DAYS		9,450							
MONTANA-DAKOTA UTILITIES CO.					1983	NA	NA	NA	NA
ALL RESIDENTIAL	1,579		20.3	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	1,054	91.6							
HEATING DEGREE DAYS		9,104							
NORTHERN STATES POWER CO.					1983	2,778	1,521	100	4,199
ALL RESIDENTIAL	212,833		30.0	89	1984	NA	1,000	NA	NA
HOUSEHEATING ONLY	195,778	97.0							
HEATING DEGREE DAYS		7,944							
NORTH CENTRAL PUBLIC SERVICE					1983	1,800	455	0	2,255
ALL RESIDENTIAL	42,880		23.0	90	1984	2,000	NA	NA	NA
HOUSEHEATING ONLY	42,495	100.0							
HEATING DEGREE DAYS		7,172							
MINNEGASCO, INC.					1983	10,379	652	265	10,766
ALL RESIDENTIAL	381,432		36.0	82	1984	9,861	870	405	10,326
HOUSEHEATING ONLY	372,667	94.9							
HEATING DEGREE DAYS		7,944							
WEST NORTH CENTRAL									
MISSOURI									
LACLEDE GAS CO.					1983	5,000	150	4,700	450
ALL RESIDENTIAL	519,800		42.4	80	1984	4,000	150	2,700	1,450
HOUSEHEATING ONLY	501,731	72.0							
HEATING DEGREE DAYS		5,070							
CITY OF SPRINGFIELD					1983	NA	NA	NA	NA
ALL RESIDENTIAL	49,445		33.0	90	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	49,445	74.0							
HEATING DEGREE DAYS		4,801							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
WEST NORTH CENTRAL									
MISSOURI									
ASSOCIATED NATURAL GAS CO.					1983	NA	NA	NA	NA
ALL RESIDENTIAL	41,229		20.0	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	41,229	100.0							
HEATING DEGREE DAYS		4,398							
WEST NORTH CENTRAL									
NEBRASKA									
HASTINGS UTILITIES					1983	36	0	20	16
ALL RESIDENTIAL	7,938		NA	88	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	7,520	117.1							
HEATING DEGREE DAYS		6,085							
IOWA PUBLIC SERVICE CO.					1983	NA	NA	NA	NA
ALL RESIDENTIAL	3,451		NA	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	3,307	NA							
HEATING DEGREE DAYS		7,364							
KN ENERGY, INC.					1983	NA	NA	NA	NA
ALL RESIDENTIAL	90,818		34.0	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	89,002	79.0							
HEATING DEGREE DAYS		6,947							
METROPOLITAN UTILITIES DIST.					1983	1,950	50	100	1,900
ALL RESIDENTIAL	121,653		39.0	84	1984	1,450	50	100	1,400
HOUSEHEATING ONLY	118,039	89.0							
HEATING DEGREE DAYS		6,911							
NORTHWESTERN PUBLIC SERVICE					1983	150	18	15	153
ALL RESIDENTIAL	38,664		30.0	100	1984	180	18	15	183
HOUSEHEATING ONLY	36,540	95.0							
HEATING DEGREE DAYS		6,471							
MINNEGASCO, INC.					1983	905	20	60	865
ALL RESIDENTIAL	103,190		36.0	94	1984	974	20	60	934
HOUSEHEATING ONLY	101,658	77.0							
HEATING DEGREE DAYS		6,658							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
WEST NORTH CENTRAL									
NORTH DAKOTA									
MONTANA-DAKOTA UTILITIES CO.					1983	NA	NA	NA	NA
ALL RESIDENTIAL	63,554		28.3	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	62,919	95.9							
HEATING DEGREE DAYS		8,229							
NORTHERN STATES POWER CO.					1983	45	251	54	242
ALL RESIDENTIAL	18,029		24.0	63	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	14,006	98.0							
HEATING DEGREE DAYS		8,496							
WEST NORTH CENTRAL									
SOUTH DAKOTA									
IOWA PUBLIC SERVICE CO.					1983	NA	NA	NA	NA
ALL RESIDENTIAL	7,387		NA	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	7,038	NA							
HEATING DEGREE DAYS		7,364							
MONTANA-DAKOTA UTILITIES CO.					1983	NA	NA	NA	NA
ALL RESIDENTIAL	25,689		28.9	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	25,432	72.6							
HEATING DEGREE DAYS		6,689							
NORTHWESTERN PUBLIC SERVICE					1983	284	20	25	279
ALL RESIDENTIAL	24,842		24.0	75	1984	250	20	30	240
HOUSEHEATING ONLY	23,692	110.0							
HEATING DEGREE DAYS		7,602							
MINNEGASCO, INC.					1983	697	9	20	686
ALL RESIDENTIAL	33,591		34.8	90	1984	671	20	20	671
HOUSEHEATING ONLY	33,252	87.8							
HEATING DEGREE DAYS		8,010							
SOUTH ATLANTIC									
DISTRICT OF COLUMBIA									
WASHINGTON GAS LIGHT CO.					1983	200	2,000	1,500	700
ALL RESIDENTIAL	132,319		36.0	71	1984	300	2,000	1,200	1,100
HOUSEHEATING ONLY	97,304	84.5							
HEATING DEGREE DAYS		4,028							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONSTR	CONVERSIONS	LESS LOSSES	NET ADDITIONS
SOUTH ATLANTIC									
DELAWARE									
DELMARVA POWER & LIGHT CO.					1985	564	101	NA	NA
ALL RESIDENTIAL	70,035		<9.4	10	1984	NA	150	NA	NA
HOUSEHEATING ONLY	40,901	76.4							
HEATING DEGREE DAYS		4,770							
SOUTH ATLANTIC									
FLORIDA									
PEOPLES GAS SYSTEM, INC.					1985	2,050	455	1,265	1,200
ALL RESIDENTIAL	151,922		18.0	37	1984	3,000	525	1,610	1,915
HOUSEHEATING ONLY	113,410	<1.0							
HEATING DEGREE DAYS		182							
SOUTH ATLANTIC									
GEORGIA									
ATLANTA GAS LIGHT CO.					1985	40,000	531	NA	NA
ALL RESIDENTIAL	808,451		40.0	61	1984	40,000	554	NA	NA
HOUSEHEATING ONLY	784,197	50.0							
HEATING DEGREE DAYS		2,996							
GAS LIGHT OF COLUMBUS					1985	492	NA	NA	NA
ALL RESIDENTIAL	48,461		24.0	94	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	46,461	46.0							
HEATING DEGREE DAYS		2,470							
UNITED CITIES GAS CO.					1985	NA	NA	NA	NA
ALL RESIDENTIAL	7,239		19.0	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	7,151	64.0							
HEATING DEGREE DAYS		3,359							
SOUTH ATLANTIC									
MARYLAND									
BALTIMORE GAS & ELECTRIC					1985	1,915	1,425	560	2,780
ALL RESIDENTIAL	479,147		42.8	44	1984	1,425	1,000	305	2,120
HOUSEHEATING ONLY	339,829	72.2							
HEATING DEGREE DAYS		4,784							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
SOUTH ATLANTIC									
MARYLAND									
WASHINGTON GAS LIGHT CO.					1985	3,800	400	800	3,400
ALL RESIDENTIAL	217,204		55.6	72	1984	3,500	400	700	3,200
HOUSEHEATING ONLY	208,324	78.7							
HEATING DEGREE DAYS		4,028							
COLUMBIA GAS OF MARYLAND					1985	268	76	605	-261
ALL RESIDENTIAL	26,622		27.0	39	1984	285	60	NA	NA
HOUSEHEATING ONLY	21,964	69.7							
HEATING DEGREE DAYS		5,064							
SOUTH ATLANTIC									
NORTH CAROLINA									
PIEDMONT NATURAL GAS CO.					1985	NA	NA	NA	NA
ALL RESIDENTIAL	186,575		25.0	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	143,641	68.0							
HEATING DEGREE DAYS		4,016							
PUBLIC SERVICE OF NC					1985	2,620	3,540	292	5,868
ALL RESIDENTIAL	142,406		24.2	26	1984	3,600	4,225	310	7,515
HOUSEHEATING ONLY	130,906	93.2							
HEATING DEGREE DAYS		3,462							
CITY OF WILSON					1985	65	28	NA	NA
ALL RESIDENTIAL	5,630		3.6	26	1984	50	13	NA	NA
HOUSEHEATING ONLY	5,400	6.2							
HEATING DEGREE DAYS		90							
NORTH CAROLINA NATURAL GAS					1985	NA	NA	NA	NA
ALL RESIDENTIAL	69,739		16.0	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	66,591	61.0							
HEATING DEGREE DAYS		3,190							
SOUTH ATLANTIC									
SOUTH CAROLINA									
PIEDMONT NATURAL GAS CO.					1985	NA	NA	NA	NA
ALL RESIDENTIAL	85,925		25.0	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	85,006	67.0							
HEATING DEGREE DAYS		3,813							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
SOUTH ATLANTIC									
SOUTH CAROLINA									
COMMISSION OF PUBLIC WORKS					1985	123	60	15	168
ALL RESIDENTIAL	9,080		14.0	40	1984	120	85	15	190
HOUSEHEATING ONLY	6,362	55.0							
HEATING DEGREE DAYS		5,210							
PEOPLES NATURAL GAS OF SC					1985	12	176	9	179
ALL RESIDENTIAL	6,019		19.0	24	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	5,586	41.0							
HEATING DEGREE DAYS		5,038							
SOUTH CAROLINA ELEC. & GAS					1985	NA	NA	NA	NA
ALL RESIDENTIAL	171,432		16.5	44	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	151,374	59.5							
HEATING DEGREE DAYS		2,622							
UNITED CITIES GAS CO.					1985	NA	NA	NA	NA
ALL RESIDENTIAL	3,529		18.0	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	3,215	66.0							
HEATING DEGREE DAYS		5,084							
SOUTH ATLANTIC									
VIRGINIA									
CITY OF DANVILLE					1985	10	112	12	110
ALL RESIDENTIAL	14,005		22.7	69	1984	100	140	20	220
HOUSEHEATING ONLY	12,240	78.9							
HEATING DEGREE DAYS		4,168							
CITY OF RICHMOND					1985	326	979	23	1,282
ALL RESIDENTIAL	65,056		24.9	NA	1984	600	NA	NA	NA
HOUSEHEATING ONLY	49,478	59.0							
HEATING DEGREE DAYS		4,037							
ROANOKE GAS CO.					1985	219	159	90	288
ALL RESIDENTIAL	30,277		30.0	36	1984	375	145	65	455
HOUSEHEATING ONLY	26,206	104.0							
HEATING DEGREE DAYS		4,586							
UNITED CITIES GAS CO.					1985	NA	NA	NA	NA
ALL RESIDENTIAL	1,080		19.0	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	992	112.0							
HEATING DEGREE DAYS		4,085							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
SOUTH ATLANTIC									
VIRGINIA									
VIRGINIA NATURAL GAS					1983	442	39	1,965	-1,484
ALL RESIDENTIAL	112,608		37.0	26	1984	950	380	0	1,330
HOUSEHEATING ONLY	86,509	50.0							
HEATING DEGREE DAYS		5,486							
COLUMBIA GAS OF VIRGINIA					1983	266	117	217	106
ALL RESIDENTIAL	35,330		29.2	45	1984	310	155	NA	NA
HOUSEHEATING ONLY	34,354	68.7							
HEATING DEGREE DAYS		4,324							
WASHINGTON GAS LIGHT CO.					1983	3,800	1,800	800	4,800
ALL RESIDENTIAL	169,718		33.0	60	1984	3,500	500	700	3,300
HOUSEHEATING ONLY	157,658	72.6							
HEATING DEGREE DAYS		4,028							
SOUTH ATLANTIC									
WEST VIRGINIA									
EQUITABLE GAS CO.					1983	103	NA	NA	NA
ALL RESIDENTIAL	10,205		33.0	NA	1984	100	NA	NA	NA
HOUSEHEATING ONLY	9,979	79.0							
HEATING DEGREE DAYS		NA							
HOPE GAS, INC.					1983	268	9	139	138
ALL RESIDENTIAL	102,827		35.5	NA	1984	285	35	NA	NA
HOUSEHEATING ONLY	99,782	79.0							
HEATING DEGREE DAYS		5,056							
COLUMBIA GAS OF WEST VA					1983	1,032	121	3,000	-1,847
ALL RESIDENTIAL	187,399		28.2	74	1984	1,100	150	NA	NA
HOUSEHEATING ONLY	185,471	81.0							
HEATING DEGREE DAYS		4,848							
EAST SOUTH CENTRAL									
ALABAMA									
ALABAMA GAS CORP.					1983	3,470	327	2,757	1,040
ALL RESIDENTIAL	350,671		30.0	70	1984	3,500	350	2,100	1,750
HOUSEHEATING ONLY	340,584	50.0							
HEATING DEGREE DAYS		2,842							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-TO MKT SHARE (%)	GAS-TO HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
EAST SOUTH CENTRAL									
ALABAMA									
MOBILE GAS SERVICE CORP.					1985	1,459	222	588	1,093
ALL RESIDENTIAL	82,514		28.0	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	80,645	53.0							
HEATING DEGREE DAYS		2,180							
OPELIKA UTILITIES					1985	50	10	20	40
ALL RESIDENTIAL	4,054		11.0	25	1984	NA	NA	20	NA
HOUSEHEATING ONLY	4,000	48.0							
HEATING DEGREE DAYS		3,428							
CITY OF FLORENCE					1985	98	44	9	133
ALL RESIDENTIAL	7,252		NA	50	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	7,160	NA							
HEATING DEGREE DAYS		3,472							
SOUTHEAST ALABAMA GAS DIST.					1985	NA	NA	NA	NA
ALL RESIDENTIAL	31,221		53.0	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	31,221	76.0							
HEATING DEGREE DAYS		2,030							
EAST SOUTH CENTRAL									
KENTUCKY									
COLUMBIA GAS OF KENTUCKY					1985	704	57	1,346	-585
ALL RESIDENTIAL	101,684		29.0	69	1984	800	65	NA	NA
HOUSEHEATING ONLY	101,189	77.8							
HEATING DEGREE DAYS		4,614							
EQUITABLE GAS CO.					1985	NA	NA	NA	NA
ALL RESIDENTIAL	4,379		NA	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	4,282	NA							
HEATING DEGREE DAYS		NA							
LOUISVILLE GAS & ELECTRIC					1985	950	50	500	500
ALL RESIDENTIAL	214,902		36.0	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	197,500	76.0							
HEATING DEGREE DAYS		4,679							
UNION LIGHT, HEAT & POWER					1985	NA	NA	300	NA
ALL RESIDENTIAL	55,612		35.0	NA	1984	NA	NA	200	NA
HOUSEHEATING ONLY	52,616	95.0							
HEATING DEGREE DAYS		5,592							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
EAST SOUTH CENTRAL									
KENTUCKY									
WESTERN KENTUCKY GAS CO.					1983	275	NA	214	NA
ALL RESIDENTIAL	125,783		24.0	35	1984	970	NA	NA	NA
HOUSEHEATING ONLY	113,682	86.0							
HEATING DEGREE DAYS		4,459							
DELTA NATURAL GAS CO.					1983	NA	NA	NA	NA
ALL RESIDENTIAL	24,864		28.0	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	NA	66.0							
HEATING DEGREE DAYS		4,831							
EAST SOUTH CENTRAL									
MISSISSIPPI									
ENTEX, INC.					1983	315	180	40	455
ALL RESIDENTIAL	96,252		32.0	82	1984	550	240	40	750
HOUSEHEATING ONLY	91,532	65.0							
HEATING DEGREE DAYS		2,698							
MISSISSIPPI VALLEY GAS CO.					1983	1,122	150	175	1,097
ALL RESIDENTIAL	195,773		32.0	94	1984	1,200	200	175	1,225
HOUSEHEATING ONLY	195,773	63.1			1				
HEATING DEGREE DAYS		2,864							
EAST SOUTH CENTRAL									
TENNESSEE									
MEMPHIS LIGHT, GAS & WATER					1983	3,351	25	40	3,336
ALL RESIDENTIAL	218,296		30.0	82	1984	3,000	25	40	2,985
HOUSEHEATING ONLY	210,437	82.0							
HEATING DEGREE DAYS		3,410							
NASHVILLE GAS CO.					1983	800	300	295	805
ALL RESIDENTIAL	54,005		NA	22	1984	1,500	450	NA	NA
HOUSEHEATING ONLY	52,925	NA							
HEATING DEGREE DAYS		3,646							
UNITED CITIES GAS CO.					1983	NA	NA	NA	NA
ALL RESIDENTIAL	27,539		25.0	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	26,914	72.0							
HEATING DEGREE DAYS		3,987							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
EAST SOUTH CENTRAL									
TENNESSEE									
MIDDLE TENNESSEE NATURAL GAS					1985	100	255	45	290
ALL RESIDENTIAL	8,644		18.0	22	1984	50	255	40	245
HOUSEHEATING ONLY	8,278	68.0							
HEATING DEGREE DAYS		5,718							
JACKSON UTILITY DIVISION					1985	80	24	64	40
ALL RESIDENTIAL	14,644		22.0	75	1984	120	27	30	117
HOUSEHEATING ONLY	14,375	67.0							
HEATING DEGREE DAYS		4,025							
WEST SOUTH CENTRAL									
ARKANSAS									
ARKANSAS LOUISIANA GAS CO.					1983	NA	NA	NA	NA
ALL RESIDENTIAL	340,424		34.6	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	340,424	57.4							
HEATING DEGREE DAYS		5,780							
ARKANSAS WESTERN GAS CO.					1985	1,700	NA	NA	NA
ALL RESIDENTIAL	64,679		34.2	45	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	65,585	60.8							
HEATING DEGREE DAYS		4,961							
ARKANSAS OKLAHOMA GAS CORP.					1985	NA	NA	NA	NA
ALL RESIDENTIAL	32,248		36.7	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	32,248	70.1							
HEATING DEGREE DAYS		5,904							
ASSOCIATED NATURAL GAS CO.					1985	NA	NA	NA	NA
ALL RESIDENTIAL	16,663		20.0	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	16,663	80.0							
HEATING DEGREE DAYS		5,980							
WEST SOUTH CENTRAL									
LOUISIANA									
ARKANSAS LOUISIANA GAS CO.					1985	NA	NA	NA	NA
ALL RESIDENTIAL	130,087		32.0	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	130,087	53.0							
HEATING DEGREE DAYS		2,016							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
WEST SOUTH CENTRAL									
LOUISIANA									
TRANS LOUISIANA GAS CO.					1983	NA	NA	NA	NA
ALL RESIDENTIAL	63,922		29.0	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	63,922	58.0							
HEATING DEGREE DAYS		2,580							
NEW ORLEANS PUBLIC SERVICE					1983	NA	NA	NA	NA
ALL RESIDENTIAL	160,768		NA	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	159,160	NA							
HEATING DEGREE DAYS		1,575							
ENTEX, INC.					1983	485	90	40	535
ALL RESIDENTIAL	124,310		51.0	80	1984	600	150	40	710
HOUSEHEATING ONLY	118,850	49.0							
HEATING DEGREE DAYS		1,845							
WEST SOUTH CENTRAL									
OKLAHOMA									
ARKANSAS LOUISIANA GAS CO.					1983	NA	NA	NA	NA
ALL RESIDENTIAL	109,660		32.3	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	109,660	53.7							
HEATING DEGREE DAYS		4,165							
ARKANSAS OKLAHOMA GAS CORP.					1983	NA	NA	NA	NA
ALL RESIDENTIAL	13,242		31.3	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	13,242	58.1							
HEATING DEGREE DAYS		3,904							
LONE STAR GAS CO.					1983	320	19	86	253
ALL RESIDENTIAL	35,458		25.0	55	1984	328	19	96	251
HOUSEHEATING ONLY	31,785	55.0							
HEATING DEGREE DAYS		2,466							
OKLAHOMA NATURAL GAS CO.					1983	23,270	100	1,000	22,370
ALL RESIDENTIAL	587,940		38.0	89	1984	15,500	300	500	15,300
HOUSEHEATING ONLY	587,060	74.0							
HEATING DEGREE DAYS		4,094							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTU MKT SHARE (%)	GAS-HTU HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
WEST SOUTH CENTRAL									
TEXAS									
ARKANSAS LOUISIANA GAS CO.					1985	NA	NA	NA	NA
ALL RESIDENTIAL	55,194		27.4	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	55,194	45.6							
HEATING DEGREE DAYS		3,170							
LONE STAR GAS CO.					1985	10,000	440	2,710	7,730
ALL RESIDENTIAL	1,052,467		25.0	55	1984	10,251	440	2,810	7,861
HOUSEHEATING ONLY	999,644	55.0							
HEATING DEGREE DAYS		2,466							
CITY PUBLIC SERVICE					1985	4,120	0	2,340	1,780
ALL RESIDENTIAL	254,780		29.5	78	1984	4,395	0	5,378	-983
HOUSEHEATING ONLY	230,945	50.6							
HEATING DEGREE DAYS		2,014							
ENTEX, INC.					1985	20,100	600	110	20,590
ALL RESIDENTIAL	925,176		29.0	80	1984	21,500	600	110	21,990
HOUSEHEATING ONLY	904,352	44.0							
HEATING DEGREE DAYS		1,656							
ENERGAS CO.					1985	8,105	40	100	8,105
ALL RESIDENTIAL	249,022		46.0	85	1984	9,000	40	100	8,940
HOUSEHEATING ONLY	243,305	68.0							
HEATING DEGREE DAYS		3,471							
MOUNTAIN									
ARIZONA									
ARIZONA PUBLIC SERVICE CO.					1985	0	0	2,240	-2,240
ALL RESIDENTIAL	512,870		12.3	52	1984	0	0	3,262	-3,262
HOUSEHEATING ONLY	286,728	50.7							
HEATING DEGREE DAYS		1,085							
SOUTHWEST GAS CORP.					1985	3,042	NA	205	NA
ALL RESIDENTIAL	157,935		19.0	80	1984	2,650	NA	242	NA
HOUSEHEATING ONLY	157,935	54.0							
HEATING DEGREE DAYS		1,634							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
MOUNTAIN									
COLORADO									
CITY OF COLORADO SPRINGS					1983	5,569	NA	96	NA
ALL RESIDENTIAL	83,396		32.0	99	1984	4,590	NA	NA	NA
HOUSEHEATING ONLY	83,396	76.0							
HEATING DEGREE DAYS		6,870							
KN ENERGY, INC.					1983	NA	NA	NA	NA
ALL RESIDENTIAL	5,412		30.0	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	5,304	77.0							
HEATING DEGREE DAYS		6,506							
PUBLIC SERVICE OF COLORADO					1983	23,733	NA	NA	NA
ALL RESIDENTIAL	608,609		35.5	75	1984	25,200	NA	NA	NA
HOUSEHEATING ONLY	608,609	94.2							
HEATING DEGREE DAYS		6,715							
MOUNTAIN									
IDAHO									
WASHINGTON WATER POWER					1983	111	164	NA	NA
ALL RESIDENTIAL	14,612		15.7	22	1984	392	525	NA	NA
HOUSEHEATING ONLY	12,791	57.8							
HEATING DEGREE DAYS		6,060							
INTERMOUNTAIN GAS CO.					1983	1,361	937	1,162	1,136
ALL RESIDENTIAL	86,561		17.3	40	1984	1,122	1,113	NA	NA
HOUSEHEATING ONLY	86,561	53.5							
HEATING DEGREE DAYS		6,269							
MOUNTAIN									
MONTANA									
GREAT FALLS GAS CO.					1983	113	NA	67	NA
ALL RESIDENTIAL	20,206		NA	85	1984	150	NA	15	NA
HOUSEHEATING ONLY	20,206	110.0							
HEATING DEGREE DAYS		7,675							
MONTANA-DAKOTA UTILITIES CO.					1983	NA	NA	NA	NA
ALL RESIDENTIAL	55,264		29.6	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	54,711	79.6							
HEATING DEGREE DAYS		6,564							

DIVISION / STATE / COMPANY	CUSTOMERS Year-End	Consumption Per Single Family Home (Mcf/yr) Heating	Consumption Per Single Family Home (Mcf/yr) Base-Load	Gas-Htg Mkt Share (%)	Gas-Htg Housing Unit Additions Year	New Const	Conv-sions	Less Losses	Net Addi-tions
MOUNTAIN									
MONTANA									
MONTANA POWER CO.					1985	570	0	527	43
ALL RESIDENTIAL	89,094		NA	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	89,094	NA							
HEATING DEGREE DAYS		8,069							
MOUNTAIN									
NEW MEXICO									
GAS CO. OF NEW MEXICO					1985	5,617	96	0	5,713
ALL RESIDENTIAL	265,806		28.8	82	1984	5,199	100	0	5,299
HOUSEHEATING ONLY	265,806	52.0							
HEATING DEGREE DAYS		4,425							
MOUNTAIN									
NEVADA									
STERRA PACIFIC POWER CO.					1985	989	100	0	1,089
ALL RESIDENTIAL	49,756		22.5	70	1984	1,040	150	0	1,190
HOUSEHEATING ONLY	40,038	48.2							
HEATING DEGREE DAYS		5,606							
SOUTHWEST GAS CORP.					1985	3,699	44	NA	NA
ALL RESIDENTIAL	121,187		26.0	55	1984	3,819	48	NA	NA
HOUSEHEATING ONLY	115,456	64.9							
HEATING DEGREE DAYS		5,864							
MOUNTAIN									
UTAH									
MOUNTAIN FUEL SUPPLY					1985	8,574	351	1,096	7,809
ALL RESIDENTIAL	373,945		35.2	95	1984	11,554	350	1,000	10,954
HOUSEHEATING ONLY	373,945	79.8							
HEATING DEGREE DAYS		5,081							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
MOUNTAIN									
WYOMING									
KN ENERGY, INC.					1983	NA	NA	NA	NA
ALL RESIDENTIAL	9,364		29.0	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	9,177	74.0							
HEATING DEGREE DAYS		7,970							
MONTANA-DAKOTA UTILITIES CO.					1983	NA	NA	NA	NA
ALL RESIDENTIAL	11,264		31.8	NA	1984	NA	NA	NA	NA
HOUSEHEATING ONLY	11,151	85.9							
HEATING DEGREE DAYS		6,672							
MOUNTAIN FUEL SUPPLY CO.					1983	836	7	155	688
ALL RESIDENTIAL	18,456		38.8	95	1984	208	12	150	70
HOUSEHEATING ONLY	18,456	81.2							
HEATING DEGREE DAYS		8,364							
NORTHERN GAS DIVISION					1983	368	20	60	328
ALL RESIDENTIAL	41,199		36.0	90	1984	400	20	NA	NA
HOUSEHEATING ONLY	41,199	90.0							
HEATING DEGREE DAYS		7,699							
PACIFIC									
CALIFORNIA									
CITY OF LONG BEACH					1983	200	NA	NA	NA
ALL RESIDENTIAL	121,208		36.0	95	1984	200	NA	NA	NA
HOUSEHEATING ONLY	114,298	57.0							
HEATING DEGREE DAYS		906							
PACIFIC GAS AND ELECTRIC					1983	51,819	NA	NA	NA
ALL RESIDENTIAL	2,766,385		12.0	90	1984	45,000	NA	NA	NA
HOUSEHEATING ONLY	2,766,385	61.0							
HEATING DEGREE DAYS		2,216							
SAN DIEGO GAS & ELECTRIC CO.					1983	11,671	0	0	11,671
ALL RESIDENTIAL	504,828		29.0	78	1984	12,027	0	0	12,027
HOUSEHEATING ONLY	393,766	21.0							
HEATING DEGREE DAYS		623							
SOUTHWEST GAS CORP.					1983	2,607	32	NA	NA
ALL RESIDENTIAL	54,036		24.0	77	1984	2,700	85	NA	NA
HOUSEHEATING ONLY	53,657	66.0							
HEATING DEGREE DAYS		6,139							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
PACIFIC									
CALIFORNIA									
SOUTHERN CALIFORNIA GAS CO.					1985	49,295	NA	6,400	NA
ALL RESIDENTIAL	5,751,569		34.5	91	1984	71,100	NA	6,000	NA
HOUSEHEATING ONLY	5,500,200	41.6							
HEATING DEGREE DAYS		1,274							
PACIFIC									
HAWAII									
GASCO, INC.					1985	0	0	0	0
ALL RESIDENTIAL	58,062		18.9	0	1984	0	0	0	0
HOUSEHEATING ONLY	000	NA							
HEATING DEGREE DAYS		NA							
PACIFIC									
OREGON									
NORTHWEST NATURAL GAS CO.					1985	3,100	4,488	4,507	3,081
ALL RESIDENTIAL	224,508		24.1	30	1984	3,425	4,900	4,280	4,045
HOUSEHEATING ONLY	208,198	46.3							
HEATING DEGREE DAYS		5,997							
PACIFIC									
WASHINGTON									
NORTHWEST NATURAL GAS CO.					1985	20	20	130	-90
ALL RESIDENTIAL	5,131		24.1	15	1984	100	100	130	70
HOUSEHEATING ONLY	4,800	46.3							
HEATING DEGREE DAYS		3,997							
WASHINGTON WATER POWER					1985	356	508	NA	NA
ALL RESIDENTIAL	52,094		15.8	34	1984	385	2,140	NA	NA
HOUSEHEATING ONLY	50,437	72.8							
HEATING DEGREE DAYS		6,060							
WASHINGTON NATURAL GAS CO.					1985	2,200	4,441	1,593	5,048
ALL RESIDENTIAL	232,418		17.1	30	1984	2,778	4,500	NA	NA
HOUSEHEATING ONLY	232,418	72.1							
HEATING DEGREE DAYS		4,461							

APPENDIX 2

COMPETITIVE FUEL PRICES
(as of December 31, 1983)

The information in this section presents the average delivered price (as of December 31, 1983) of competitive fuels distributed to residential customers, gas' principal competition in each market, and the average annual gas heating bill. The data reflect prices in the principal city served within each company's franchise area. Regional fuel prices for competitive fuels are listed at the end of each region. Prices are expressed in dollars per million Btu for comparison.

The prices for natural gas represent househeating use only and exclude baseload prices. Baseload consumption includes all domestic uses of gas (e.g., ranges, water heaters, and clothes dryers) except househeating and air conditioning. Moreover, baseload prices are generally higher than househeating prices because utilities charge more per unit of energy for small monthly consumption (baseload only) and less per unit of energy for large monthly consumption (baseload plus winter heating use).

The prices for electricity represent total electric use or the rate prevailing for 600 Kwh per month and above.

The following conversion factors were used to convert reported data to Btu.

Conversion Factors

Natural Gas	1,000 cubic feet/million Btu
Fuel Oil #2	7.194 gallons/million Btu
Electricity	293.083 kwh/million Btu
Propane	10.917 gallons/million Btu

Information marked "NA" represents data not available or fuel not distributed.

DIVISION / STATE / COMPANY	PRINCIPAL CITY SERVED	ALL PRICES IN DOLLARS PER MILLION BTU AS OF DECEMBER 31 — NATURAL GAS	FUEL OIL NO. 2	ELECTRIC	PROPANE	PRINCIPAL COMPETITIVE FUEL	AVERAGE ANNUAL GAS HTG BILL($)
NEW ENGLAND							
CONNECTICUT							
SOUTHERN CONNECTICUT GAS CO.	BRIDGEPORT	9.00	8.63	29.31	10.59	#2 OIL	820.00
CONNECTICUT NATURAL GAS	HARTFORD	7.21	7.78	21.16	11.24	#2 OIL	1,042.00
NORTHEAST UTILITIES	WATERBURY	9.13	8.70	23.45	9.83	#2 OIL	996.00
NEW ENGLAND							
MASSACHUSETTS							
BOSTON GAS CO.	BOSTON	6.46	8.02	30.48	10.37	#2 OIL	856.27
COLONIAL GAS CO.	CAPE COD	7.60	8.99	24.91	12.01	ELECTRIC	850.00
COMMONWEALTH GAS CO.	WORCESTER	6.78	8.49	20.52	13.65	#2 OIL	1,025.00
FALL RIVER GAS CO.	FALL RIVER	5.91	7.99	23.45	NA	#2 OIL	715.00
BAY STATE GAS CO.	BROCKTON	6.84	9.35	32.83	10.92	#2 OIL	823.00
ESSEX COUNTY GAS CO.	HAVERHILL	7.83	7.55	24.91	11.90	#2 OIL	945.00
LOWELL GAS CO.	LOWELL	7.50	7.91	23.45	9.83	#2 OIL	720.00
NEW ENGLAND							
MAINE							
NORTHERN UTILITIES INC.	LEWISTON	7.86	6.65	19.90	12.23	#2 OIL	880.00
NEW ENGLAND							
NEW HAMPSHIRE							
CONCORD NATURAL GAS CORP.	CONCORD	6.17	8.34	24.62	10.69	#2 OIL	675.00
GAS SERVICE, INC.	NASHUA	7.00	9.06	35.17	10.81	#2 OIL	900.00
MANCHESTER GAS CO.	MANCHESTER	7.50	9.06	35.17	10.81	#2 OIL	800.00
NORTHERN UTILITIES, INC.	PORTSMOUTH	7.45	6.83	23.92	12.12	#2 OIL	670.00
NEW ENGLAND							
RHODE ISLAND							
VALLEY GAS CO.	PAWTUCKET	7.54	8.49	25.91	10.92	#2 OIL	791.00

DIVISION / STATE / COMPANY	PRINCIPAL CITY SERVED	ALL PRICES IN DOLLARS PER MILLION BTU AS OF DECEMBER 31 NATURAL GAS	FUEL OIL NO. 2	ELECTRIC	PROPANE	PRINCIPAL COMPETITIVE FUEL	AVERAGE ANNUAL GAS BILL(S)
NEW ENGLAND							
VERMONT							
VERMONT GAS SYSTEMS	BURLINGTON	5.79	8.27	17.00	12.55	ELECTRIC	619.74
NEW ENGLAND DIVISION		7.22	8.24	25.66	11.28		868.04
MIDDLE ATLANTIC							
NEW JERSEY							
SOUTH JERSEY GAS CO.	ATLANTIC CITY	6.61	8.20	18.32	13.10	ELECTRIC	407.00
NEW JERSEY NATURAL GAS CO.	WALL	5.86	9.21	26.00	10.37	#2 OIL	559.40
PUBLIC SERVICE ELEC. & GAS	NEWARK	6.31	8.20	17.85	NA	#2 OIL	769.00
MIDDLE ATLANTIC							
NEW YORK							
BROOKLYN UNION GAS CO.	NEW YORK	8.50	8.76	25.76	NA	#2 OIL	1,055.00
CENTRAL HUDSON GAS & ELEC.	POUGHKEEPSIE	6.40	7.91	29.22	8.01	#2 OIL	525.00
NIAGARA MOHAWK POWER CORP.	SYRACUSE	6.58	7.91	18.17	9.83	ELECTRIC	877.00
CONSOLIDATED EDISON CO.	NEW YORK	7.23	8.38	46.86	NA	#2 OIL	900.00
NATIONAL FUEL GAS DISTR.	BUFFALO	6.31	7.91	18.46	10.37	#2 OIL	618.10
LONG ISLAND LIGHTING CO.	LONG BEACH	6.35	8.13	24.75	12.59	#2 OIL	867.00
NEW YORK STATE ELEC. & GAS	ITHACA	6.09	7.64	15.83	10.92	#2 OIL	658.00
ROCHESTER GAS & ELEC.	ROCHESTER	6.36	8.06	18.29	10.26	ELECTRIC	604.00
ORANGE & ROCKLAND UTILITIES	CLARKSTOWN	6.74	8.13	37.79	6.06	#2 OIL	764.21
COLUMBIA GAS OF NEW YORK	BINGHAMTON	6.05	7.54	18.82	12.41	ELECTRIC	506.00
ST. LAWRENCE GAS CO.	MASSENA	5.50	7.41	13.77	10.70	ELECTRIC	692.00
MIDDLE ATLANTIC							
PENNSYLVANIA							
EQUITABLE GAS CO.	PITTSBURGH	6.66	7.63	19.05	12.55	ELECTRIC	506.00
NATIONAL FUEL GAS DISTR.	ERIE	5.64	7.70	20.96	10.15	#2 OIL	502.94
NORTH PENN GAS CO.	KINKAL	5.81	7.95	17.00	10.92	#2 OIL	406.70

DIVISION / STATE / COMPANY	PRINCIPAL CITY SERVED	ALL PRICES IN DOLLARS PER MILLION BTU AS OF DECEMBER 31 NATURAL GAS	FUEL OIL NO. 2	ELECTRIC	PROPANE	PRINCIPAL COMPETITIVE FUEL	AVERAGE ANNUAL GAS BILL(S)
THE PEOPLES NATURAL GAS CO.	PITTSBURGH	5.64	6.98	14.80	12.23	ELECTRIC	510.00
PHILADELPHIA ELECTRIC CO.	PHILADELPHIA	6.74	8.06	15.89	10.04	ELECTRIC	773.00
PHILADELPHIA GAS WORKS	PHILADELPHIA	6.81	7.91	15.47	14.96		770.00
PIKE COUNTY LIGHT & POWER	MATAMORAS	6.55	8.13	26.42	6.06	#2 OIL	576.59
PENNSYLVANIA GAS & WATER CO.	WILKES-BARRE	6.74	7.55	19.64	13.65	ELECTRIC	924.00
UGI CORP.	READING	7.47	7.45	19.81	14.41	#2 OIL	554.75
COLUMBIA GAS OF PENNSYLVANIA	PITTSBURGH	5.98	7.30	11.08	8.73	ELECTRIC	502.00
MIDDLE ATLANTIC DIVISION		6.56	7.93	21.25	11.05		700.96
EAST NORTH CENTRAL							
ILLINOIS							
CENTRAL ILLINOIS LIGHT CO.	PEORIA	5.14	7.77	14.42	7.97	ELECTRIC	699.20
CENTRAL IL. PUBLIC SERVICE	QUINCY	5.51	7.19	10.20	7.10	ELECTRIC	490.00
ILLINOIS POWER CO.	DECATUR	4.70	6.98	11.10	7.75	ELECTRIC	532.24
IOWA-ILLINOIS GAS & ELEC.	ROCK ISLAND	4.99	7.19	18.75	8.73	PROPANE	486.21
NORTH SHORE GAS CO.	WAUKEGAN	5.36	8.16	14.02	NA	ELECTRIC	707.00
PEOPLES GAS LIGHT & COKE CO.	CHICAGO	5.49	8.29	13.93	NA	ELECTRIC	750.00
NORTHERN ILLINOIS GAS CO.	ROCKFORD	4.46	7.58	12.63	8.79	ELECTRIC	531.00
UNITED CITIES GAS CO.	VANDALIA	5.60	7.91	20.52	9.28	ELECTRIC	490.00
EAST NORTH CENTRAL							
INDIANA							
CITIZENS GAS & COKE	INDIANAPOLIS	5.22	7.63	10.86	8.30	ELECTRIC	506.34
HOOSIER GAS CORP.	VINCENNES	4.58	7.05	14.65	9.49	ELECTRIC	463.32
INDIANA GAS CO.	MUNCIE	6.26	7.30	14.01	8.83	ELECTRIC	717.09
KOKOMO GAS & FUEL CO.	KOKOMO	5.65	7.59	14.07	8.84	ELECTRIC	690.00
LAWRENCEBURG GAS CO.	LAWRENCEBURG	5.17	7.55	NA	9.50	ELECTRIC	460.00
NORTHERN IN. PUBLIC SERVICE	FORT WAYNE	4.40	7.25	17.94	9.25	ELECTRIC	455.36
OHIO VALLEY GAS CORP.	WINCHESTER	5.76	8.78	19.05	11.46	ELECTRIC	610.00
RICHMOND GAS CORP.	RICHMOND	5.88	7.47	11.72	8.72	#2 OIL	523.00
MIDWEST NATURAL GAS CORP.	SCOTTSBURG	5.84	6.94	NA	6.66	ELECTRIC	477.52

DIVISION / STATE / COMPANY	PRINCIPAL CITY SERVED	ALL PRICES IN DOLLARS PER MILLION BTU AS OF DECEMBER 31 — NATURAL GAS	FUEL OIL NO. 2	ELECTRIC	PROPANE	PRINCIPAL COMPETITIVE FUEL	AVERAGE ANNUAL GAS BTG BILL(S)
EAST NORTH CENTRAL							
MICHIGAN							
BATTLE CREEK GAS CO.	BATTLE CREEK	5.60	7.76	16.41	9.81	#2 OIL	678.00
CONSUMERS POWER CO.	FLINT	5.32	7.73	16.52	9.60	#2 OIL	652.00
SOUTHEASTERN MICHIGAN GAS	PORT HURON	5.29	7.26	17.27	9.29	#2 OIL	579.00
LAKE SUPERIOR DIST. POWER	IRONWOOD	6.26	7.19	15.21	9.06	ELECTRIC	575.00
MICHIGAN CONSOLIDATED GAS	DETROIT	5.68	7.77	20.81	9.92	#2 OIL	642.00
MICHIGAN POWER CO.	HOLLAND	5.28	7.50	14.62	9.45	#2 OIL	459.38
MICHIGAN GAS UTILITIES CO.	MONROE	5.14	8.16	19.05	9.60	ELECTRIC	450.23
WISCONSIN PUBLIC SERVICE	MENOMINEE	5.59	7.19	20.02	8.71	#2 OIL	526.10
EAST NORTH CENTRAL							
OHIO							
CINCINNATI GAS & ELEC.	CINCINNATI	5.75	7.55	13.85	9.50	ELECTRIC	519.00
DAYTON POWER & LIGHT CO.	DAYTON	5.75	8.13	22.12	10.17	#2 OIL	690.35
EAST OHIO GAS CO.	CLEVELAND	5.68	8.08	15.94	9.93	ELECTRIC	654.00
NATIONAL GAS & OIL CORP.	NEWARK	5.17	7.40	15.86	9.55	ELECTRIC	531.91
NATIONAL FUEL GAS DISTR.	ANDOVER	5.37	7.70	20.98	10.15	#2 OIL	560.58
OHIO GAS CO.	BRYAN	6.17	7.34	14.65	8.95	ELECTRIC	728.00
TOLEDO EDISON CO.	DEFIANCE	5.71	7.57	19.08	9.05	ELECTRIC	500.00
WEST OHIO GAS CO.	LIMA	6.27	7.40	19.93	10.58	ELECTRIC	735.16
COLUMBIA GAS OF OHIO	COLUMBUS	6.43	7.46	9.73	8.52	ELECTRIC	523.00
EAST NORTH CENTRAL							
WISCONSIN							
LAKE SUPERIOR DIST. POWER	ASHLAND	5.91	7.41	16.59	9.37	ELECTRIC	555.00
MADISON GAS & ELECTRIC	MADISON	6.70	7.55	20.11	8.68	#2 OIL	810.00
WISCONSIN GAS CO.	MILWAUKEE	6.39	7.70	18.61	8.94	#2 OIL	611.00
NORTHERN STATES POWER CO.	EAU CLAIRE	6.94	7.34	15.80	9.06	ELECTRIC	514.00
SUPERIOR WATER,LIGHT & POWER	SUPERIOR	6.85	8.01	18.41	9.59	#2 OIL	766.00
WISCONSIN FUEL & LIGHT CO.	WAUSAU	6.27	7.41	17.59	9.17	#2 OIL	573.33
WISCONSIN POWER & LIGHT	JANESVILLE	6.45	7.32	19.64	8.71	#2 OIL	599.84
WISCONSIN PUBLIC SERVICE	GREEN BAY	5.59	7.19	20.02	8.71	#2 OIL	526.10
WISCONSIN SOUTHERN GAS CO.	LAKE GENEVA	5.00	7.19	19.64	8.73	ELECTRIC	625.00
WISCONSIN NATURAL GAS CO.	RACINE	6.10	7.70	19.81	8.92	#2 OIL	730.27

DIVISION / STATE / COMPANY	PRINCIPAL CITY SERVED	ALL PRICES IN DOLLARS PER MILLION BTU AS OF DECEMBER 31 — NATURAL GAS	FULL OIL NO. 2	ELECTRIC	PROPANE	PRINCIPAL COMPETITIVE FUEL	AVERAGE ANNUAL GAS BILL($)
EAST NORTH CENTRAL DIVISION		5.47	7.56	16.56	9.10		595.39
WEST NORTH CENTRAL							
IOWA							
IOWA ELECTRIC LIGHT & POWER	AMES	5.60	6.80	17.80	7.10	#2 OIL	465.00
IOWA-ILLINOIS GAS & ELECTRIC	DAVENPORT	4.58	7.19	18.19	8.73	PROPANE	431.55
IOWA POWER & LIGHT CO.	DES MOINES	5.33	7.19	14.98	7.64	ELECTRIC	783.00
IOWA PUBLIC SERVICE CO.	SIOUX CITY	5.28	7.19	17.38	7.19	PROPANE	641.00
NORTH CENTRAL PUBLIC SERVICE	FORT MADISON	5.50	7.84	16.85	7.64	ELECTRIC	690.00
WEST NORTH CENTRAL							
KANSAS							
ARKANSAS LOUISIANA GAS CO.	WICHITA	3.97	5.88	19.97	7.31	ELECTRIC	213.00
MIDWEST ENERGY, INC.	HAYS	3.41	NA	17.44	6.88	NA	463.02
KN ENERGY, INC.	COLBY	2.99	6.10	19.93	6.66	ELECTRIC	245.00
KANSAS POWER & LIGHT CO.	SALINA	3.30	7.27	14.66	7.31	ELECTRIC	387.20
WEST NORTH CENTRAL							
MINNESOTA							
AUSTIN UTILITIES	AUSTIN	4.89	7.19	16.71	7.26	PROPANE	565.00
CITY OF DULUTH	DULUTH	5.44	8.12	16.71	10.15	#2 OIL	740.00
MONTANA-DAKOTA UTILITIES CO.	CROOKSTON	6.04	7.19	17.00	7.93	ELECTRIC	639.00
NORTHERN STATES POWER CO.	ST. PAUL	5.65	7.91	12.78	9.04	ELECTRIC	598.00
NORTH CENTRAL PUBLIC SERVICE	COON RAPIDS	5.40	7.91	17.58	9.17	ELECTRIC	700.00
MINNEGASCO, INC.	MINNEAPOLIS	5.72	7.70	14.07	8.73	ELECTRIC	540.00
WEST NORTH CENTRAL							
MISSOURI							
LACLEDE GAS CO.	ST. LOUIS	5.71	7.41	9.33	8.52	ELECTRIC	497.00
CITY OF SPRINGFIELD	SPRINGFIELD	4.89	6.87	15.77	7.41	ELECTRIC	379.00
ASSOCIATED NATURAL GAS CO.	SIKESTON	4.54	6.88	18.32	7.41	NA	495.00

DIVISION / STATE / COMPANY	PRINCIPAL CITY SERVED	ALL PRICES IN DOLLARS PER MILLION BTU AS OF DECEMBER 31 — NATURAL GAS	FUEL OIL NO. 2	ELECTRIC	PROPANE	PRINCIPAL COMPETITIVE FUEL	AVERAGE ANNUAL GAS HTG BILL(S)
WEST NORTH CENTRAL							
NEBRASKA							
HASTINGS UTILITIES	HASTINGS	3.51	NA	17.56	NA	NA	527.40
IOWA PUBLIC SERVICE CO.	SIOUX CITY	5.28	7.19	NA	7.19	PROPANE	606.00
KN ENERGY, INC.	SCOTTSBLUFF	4.10	6.10	17.58	6.43	ELECTRIC	325.00
METROPOLITAN UTILITIES DIST.	OMAHA	4.87	7.27	9.58	7.41	ELECTRIC	435.00
NORTHWESTERN PUBLIC SERVICE	GRAND ISLAND	3.88	6.63	14.36	7.30	ELECTRIC	483.00
MINNEGASCO, INC.	LINCOLN	5.67	7.77	11.14	6.95	ELECTRIC	420.00
WEST NORTH CENTRAL							
NORTH DAKOTA							
MONTANA-DAKOTA UTILITIES CO.	BISMARCK	6.08	7.41	18.05	7.10	ELECTRIC	507.00
NORTHERN STATES POWER CO.	FARGO	6.02	7.63	10.84	8.73	ELECTRIC	654.00
WEST NORTH CENTRAL							
SOUTH DAKOTA							
IOWA PUBLIC SERVICE CO.	YANKTON	5.33	7.19	15.53	7.19	PROPANE	657.00
MONTANA-DAKOTA UTILITIES CO.	RAPID CITY	5.90	6.82	12.95	8.18	ELECTRIC	400.00
NORTHWESTERN PUBLIC SERVICE	ABERDEEN	5.68	7.04	13.77	6.55	ELECTRIC	646.00
MINNEGASCO, INC.	SIOUX FALLS	5.47	7.70	14.95	9.06	ELECTRIC	464.00
WEST NORTH CENTRAL DIVISION		5.26	7.21	15.58	7.80		508.61
SOUTH ATLANTIC							
DISTRICT OF COLUMBIA							
WASHINGTON GAS LIGHT CO.	WASHINGTON	7.56	8.42	13.75	13.54	ELECTRIC	1,002.00
SOUTH ATLANTIC							
DELAWARE							

DIVISION / STATE / COMPANY	PRINCIPAL CITY SERVED	ALL PRICES IN DOLLARS PER MILLION BTU AS OF DECEMBER 31 — NATURAL GAS	FUEL OIL NO. 2	ELECTRIC	PROPANE	PRINCIPAL COMPETITIVE FUEL	AVERAGE ANNUAL GAS HTG BILL($)
DELMARVA POWER & LIGHT CO.	WILMINGTON	6.01	8.70	16.83	11.35	#2 OIL	441.79
SOUTH ATLANTIC FLORIDA							
PEOPLES GAS SYSTEM, INC.	MIAMI	5.47	7.12	26.52	12.88	ELECTRIC	126.00
SOUTH ATLANTIC GEORGIA							
ATLANTA GAS LIGHT CO.	ATLANTA	5.70	7.05	19.99	9.83	ELECTRIC	465.89
GAS LIGHT OF COLUMBUS	COLUMBUS	5.80	5.97	19.05	8.73	ELECTRIC	325.00
UNITED CITIES GAS CO.	GAINESVILLE	5.80	6.11	19.05	8.73	ELECTRIC	400.00
SOUTH ATLANTIC MARYLAND							
BALTIMORE GAS & ELECTRIC	BALTIMORE	6.76	7.88	16.85	5.90	ELECTRIC	527.00
WASHINGTON GAS LIGHT CO.	HYATTSVILLE	6.63	8.42	13.42	13.54	ELECTRIC	834.00
COLUMBIA GAS OF MARYLAND	HAGERSTOWN	7.47	7.62	15.50	8.73	ELECTRIC	514.00
SOUTH ATLANTIC NORTH CAROLINA							
PIEDMONT NATURAL GAS CO.	CHARLOTTE	6.35	7.91	17.58	10.37	ELECTRIC	431.00
PUBLIC SERVICE OF NC	RALEIGH	6.12	8.20	18.17	10.70	ELECTRIC	627.00
CITY OF WILSON	WILSON	5.88	6.98	18.52	9.47	#2 OIL	565.38
NORTH CAROLINA NATURAL GAS	FAYETTEVILLE	6.00	8.27	17.58	9.83	ELECTRIC	354.00
SOUTH ATLANTIC SOUTH CAROLINA							
PIEDMONT NATURAL GAS CO.	GREENVILLE	6.36	7.91	17.58	10.37	ELECTRIC	426.00
COMMISSION OF PUBLIC WORKS	GREENWOOD	5.56	7.76	13.63	10.81	ELECTRIC	306.00
PEOPLES NATURAL GAS OF SC	FLORENCE	7.62	7.70	19.93	10.15	ELECTRIC	429.00
SOUTH CAROLINA ELEC. & GAS	COLUMBIA	6.10	7.55	20.81	10.04	#2 OIL	386.75

DIVISION / STATE / COMPANY	PRINCIPAL CITY SERVED	ALL PRICES IN DOLLARS PER MILLION BTU AS OF DECEMBER 31 — NATURAL GAS	FUEL OIL NO. 2	ELECTRIC	PROPANE	PRINCIPAL COMPETITIVE FUEL	AVERAGE ANNUAL GAS BILL(S)
UNITED CITIES GAS CO.	GAFFNEY	5.90	6.11	19.05	8.73	ELECTRIC	400.00
SOUTH ATLANTIC							
VIRGINIA							
CITY OF DANVILLE	DANVILLE	4.84	8.41	13.89	9.17	ELECTRIC	338.27
CITY OF RICHMOND	RICHMOND	6.95	8.77	15.08	10.70	ELECTRIC	581.42
ROANOKE GAS CO.	ROANOKE	6.43	7.99	16.71	9.72	ELECTRIC	648.96
UNITED CITIES GAS CO.	BRISTOL	5.80	7.91	14.65	9.28	ELECTRIC	640.00
VIRGINIA NATURAL GAS	NORFOLK	6.38	7.59	15.83	12.12	ELECTRIC	681.00
COLUMBIA GAS OF VIRGINIA	STAUNTON	5.98	7.98	15.65	10.53	ELECTRIC	392.00
WASHINGTON GAS LIGHT CO.	ALEXANDRIA	6.39	8.42	17.44	13.54	ELECTRIC	783.98
SOUTH ATLANTIC							
WEST VIRGINIA							
EQUITABLE GAS CO.	GRAFTON	5.51	NA	NA	NA	ELECTRIC	411.00
HOPE GAS, INC.	PARKERSBURG	6.21	7.34	14.77	10.84	ELECTRIC	490.59
COLUMBIA GAS OF WEST VA	CHARLESTON	6.10	7.01	12.95	9.28	ELECTRIC	485.00
SOUTH ATLANTIC DIVISION		6.19	7.67	17.07	10.33		527.23
EAST SOUTH CENTRAL							
ALABAMA							
ALABAMA GAS CORP.	BIRMINGHAM	5.45	7.05	15.24	9.28	ELECTRIC	432.73
MOBILE GAS SERVICE CORP.	MOBILE	6.98	7.34	19.95	10.26	ELECTRIC	297.00
DECATUR UTILITIES	DECATUR	4.73	6.47	13.19	8.19	ELECTRIC	254.00
CITY OF FLORENCE	FLORENCE	5.26	6.83	13.48	9.28	ELECTRIC	375.00
SOUTHEAST ALABAMA GAS DIST.	ANDALUSIA	5.29	5.90	21.98	9.28	ELECTRIC	395.00
EAST SOUTH CENTRAL							
KENTUCKY							

DIVISION / STATE / COMPANY	PRINCIPAL CITY SERVED	ALL PRICES IN DOLLARS PER MILLION BTU AS OF DECEMBER 31 — NATURAL GAS	FUEL OIL NO. 2	ELECTRIC	PROPANE	PRINCIPAL COMPETITIVE FUEL	AVERAGE ANNUAL GAS HTG BILL(S)
COLUMBIA GAS OF KENTUCKY	LEXINGTON	5.81	6.91	13.31	10.26	ELECTRIC	468.00
EQUITABLE GAS CO.	RURAL	4.12	NA	NA	NA	ELECTRIC	NA
LOUISVILLE GAS & ELECTRIC	LOUISVILLE	4.38	7.43	12.50	9.39	ELECTRIC	333.15
UNION LIGHT, HEAT & POWER	COVINGTON	6.00	7.55	13.19	9.50	ELECTRIC	558.00
WESTERN KENTUCKY GAS CO.	OWENSBURO	4.60	NA	14.65	9.39	ELECTRIC	408.50
DELTA NATURAL GAS CO.	WINCHESTER	5.63	7.91	16.12	9.83	ELECTRIC	366.00
EAST SOUTH CENTRAL							
MISSISSIPPI							
ENTEX, INC.	GULFPORT	6.00	NA	21.98	9.28	ELECTRIC	240.00
MISSISSIPPI VALLEY GAS CO.	JACKSON	5.42	NA	19.93	9.50	ELECTRIC	257.89
EAST SOUTH CENTRAL							
TENNESSEE							
MEMPHIS LIGHT, GAS & WATER	MEMPHIS	4.60	5.68	14.07	5.35	PROPANE	377.20
NASHVILLE GAS CO.	NASHVILLE	5.34	7.12	13.44	10.92	ELECTRIC	NA
UNITED CITIES GAS CO.	COLUMBIA	5.90	7.91	14.65	9.28	ELECTRIC	450.00
MIDDLE TENNESSEE NATURAL GAS	SMITHVILLE	5.63	6.55	13.60	9.81	ELECTRIC	420.00
JACKSON UTILITY DIVISION	JACKSON	4.56	10.43	12.61	9.83	ELECTRIC	326.40
EAST SOUTH CENTRAL DIVISION		5.27	7.22	15.52	9.33		371.60
WEST SOUTH CENTRAL							
ARKANSAS							
ARKANSAS LOUISIANA GAS CO.	LITTLE ROCK	3.99	6.83	19.80	9.28	ELECTRIC	243.00
ARKANSAS WESTERN GAS CO.	FAYETTEVILLE	3.59	NA	21.69	8.73	ELECTRIC	222.77
ARKANSAS OKLAHOMA GAS CORP.	FORT SMITH	2.96	NA	NA	NA	ELECTRIC	207.88
ASSOCIATED NATURAL GAS CO.	BLYTHEVILLE	4.10	6.98	18.32	8.80	ELECTRIC	450.00
WEST SOUTH CENTRAL							
LOUISIANA							

DIVISION / STATE / COMPANY	PRINCIPAL CITY SERVED	ALL PRICES IN DOLLARS PER MILLION BTU AS OF DECEMBER 31 — NATURAL GAS	FUEL OIL NO. 2	ELECTRIC	PROPANE	PRINCIPAL COMPETITIVE FUEL	AVERAGE ANNUAL GAS BILL($)
ARKANSAS LOUISIANA GAS CO.	SHREVEPORT	4.64	5.79	17.78	9.17	ELECTRIC	247.00
TRANS LOUISIANA GAS CO.	LAFAYETTE	5.74	NA	17.17	9.83	ELECTRIC	218.00
NEW ORLEANS PUBLIC SERVICE	NEW ORLEANS	7.44	NA	16.76	NA	ELECTRIC	NA
ENTEX, INC.	LAKE CHARLES	6.45	NA	23.95	9.28	ELECTRIC	225.05
WEST SOUTH CENTRAL							
OKLAHOMA							
ARKANSAS LOUISIANA GAS CO.	LAWTON	4.66	6.79	14.83	9.28	ELECTRIC	226.00
ARKANSAS OKLAHOMA GAS CORP.	POTEAU	3.36	NA	NA	NA	ELECTRIC	195.46
LONE STAR GAS CO.	DURANT	4.22	NA	20.52	8.84	ELECTRIC	230.90
OKLAHOMA NATURAL GAS CO.	OKLAHOMA CITY	4.25	NA	12.49	9.06	ELECTRIC	314.50
WEST SOUTH CENTRAL							
TEXAS							
ARKANSAS LOUISIANA GAS CO.	TEXARKANA	3.88	9.35	17.58	9.93	ELECTRIC	172.00
LONE STAR GAS CO.	DALLAS	5.52	NA	21.69	8.84	ELECTRIC	310.66
CITY PUBLIC SERVICE	SAN ANTONIO	5.34	NA	16.47	8.62	ELECTRIC	164.88
ENTEX, INC.	HOUSTON	6.00	NA	23.45	9.28	ELECTRIC	210.00
ENERGAS CO.	LUBBOCK	4.48	NA	11.02	7.64	ELECTRIC	355.00
WEST SOUTH CENTRAL DIVISION		5.20	7.15	18.20	9.04		263.20
MOUNTAIN							
ARIZONA							
ARIZONA PUBLIC SERVICE CO.	PHOENIX	5.79	6.76	21.10	13.10	ELECTRIC	375.05
SOUTHWEST GAS CORP.	TUCSON	6.18	7.07	15.50	10.37	ELECTRIC	190.00
MOUNTAIN							
COLORADO							
CITY OF COLORADO SPRINGS	COLORADO SPRINGS	3.75	NA	9.70	NA	ELECTRIC	265.00

DIVISION / STATE / COMPANY	PRINCIPAL CITY SERVED	ALL PRICES IN DOLLARS PER MILLION BTU AS OF DECEMBER 31 — NATURAL GAS	FUEL OIL NO. 2	ELECTRIC	PROPANE	PRINCIPAL COMPETITIVE FUEL	AVERAGE ANNUAL GAS HTG BILL($)
KN ENERGY, INC.	YUMA	5.05	6.03	18.90	8.19	ELECTRIC	376.00
PUBLIC SERVICE OF COLORADO	DENVER	4.81	5.88	23.33	8.73	ELECTRIC	399.97
MOUNTAIN / IDAHO							
WASHINGTON WATER POWER	LEWISTON	5.30	7.70	10.27	10.26	#2 OIL	359.00
INTERMOUNTAIN GAS CO.	BOISE	5.96	6.90	11.66	9.49	NA	415.00
MOUNTAIN / MONTANA							
GREAT FALLS GAS CO.	GREAT FALLS	4.49	7.77	10.61	8.19	ELECTRIC	297.00
MONTANA-DAKOTA UTILITIES CO.	BILLINGS	4.28	6.74	10.43	8.50	ELECTRIC	343.00
MONTANA POWER CO.	MISSOULA	3.96	6.88	10.42	8.30	ELECTRIC	415.00
MOUNTAIN / NEW MEXICO							
GAS CO. OF NEW MEXICO	ALBUQUERQUE	4.60	6.76	21.28	8.84	ELECTRIC	237.00
MOUNTAIN / NEVADA							
SIERRA PACIFIC POWER CO.	RENO	6.77	8.06	25.18	12.55	#2 OIL	349.50
SOUTHWEST GAS CORP.	LAS VEGAS	6.31	6.91	19.84	11.90	ELECTRIC	456.80
MOUNTAIN / UTAH							
MOUNTAIN FUEL SUPPLY	SALT LAKE CITY	5.03	6.83	19.55	9.35	ELECTRIC	579.00
MOUNTAIN / WYOMING							

DIVISION / STATE / COMPANY	PRINCIPAL CITY SERVED	ALL PRICES IN DOLLARS PER MILLION BTU AS OF DECEMBER 31 — NATURAL GAS	FUEL OIL NO. 2	ELECTRIC ¢	PROPANE	PRINCIPAL COMPETITIVE FUEL	AVERAGE ANNUAL GAS BTU BILL($)
KN ENERGY, INC.	DOUGLAS	3.74	6.03	12.60	7.63	ELECTRIC	287.00
MONTANA-DAKOTA UTILITIES CO.	SHERIDAN	5.19	7.55	11.05	7.31	ELECTRIC	466.00
MOUNTAIN FUEL SUPPLY CO.	ROCK SPRINGS	4.71	9.06	13.51	8.51	ELECTRIC	565.00
NORTHERN GAS DIVISION	CASPER	5.29	NA	12.19	7.31	ELECTRIC	635.88
MOUNTAIN DIVISION		5.11	7.06	15.40	9.33		394.45
PACIFIC							
CALIFORNIA							
CITY OF LONG BEACH	LONG BEACH	3.99	NA	23.45	NA	ELECTRIC	147.75
PACIFIC GAS AND ELECTRIC	SAN FRANCISCO	4.84	5.76	17.79	12.01	PROPANE	285.00
SAN DIEGO GAS & ELECTRIC CO.	SAN DIEGO	5.75	7.10	27.69	11.57	ELECTRIC	106.92
SOUTHWEST GAS CORP.	VICTORVILLE	7.63	9.42	24.16	11.90	PROPANE	635.00
SOUTHERN CALIFORNIA GAS CO.	LOS ANGELES	5.44	NA	21.72	8.52	ELECTRIC	228.00
PACIFIC							
HAWAII							
GASCO, INC.	HONOLULU	NA	NA	NA	NA	NA	NA
PACIFIC							
OREGON							
NORTHWEST NATURAL GAS CO.	PORTLAND	6.39	7.12	13.19	10.37	ELECTRIC	319.47
PACIFIC							
WASHINGTON							
NORTHWEST NATURAL GAS CO.	VANCOUVER	5.68	7.12	10.84	10.37	ELECTRIC	310.00
WASHINGTON WATER POWER	SPOKANE	5.27	7.70	8.44	10.26	#2 OIL	442.00
WASHINGTON NATURAL GAS CO.	SEATTLE	6.53	8.42	12.49	NA	ELECTRIC	600.00
PACIFIC DIVISION		5.28	7.52	17.75	10.71		260.68